

JVC

SERVICE MANUAL

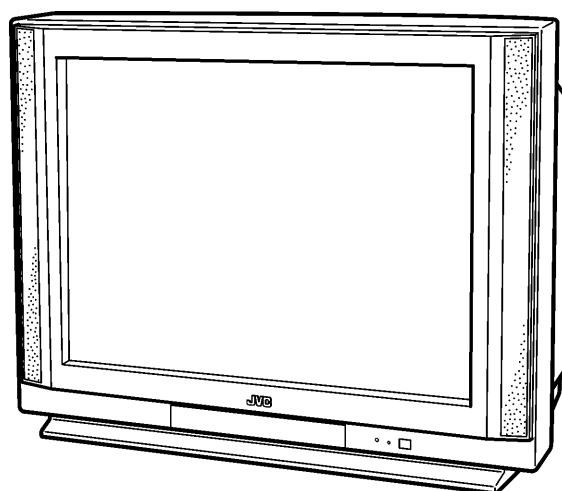
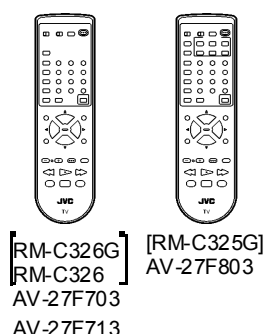
COLOR TELEVISION

AV-27F703/s
AV-27F713/s
AV-27F803/s

BASIC CHASSIS

GJ
(No AT11)

UBE



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SPECIFICATIONS

Items		Contents	
Dimensions (W× H× D)		29-7/8"× 23"-3/8"× 19-3/4" (758mm × 593mm × 500mm)	
Mass		94.6 lbs (43.0 kg)	
TV System and Color System	TV RF System	CCIR(M)	
	Color System	NTSC	
	Sound System	BTSC System (Multi-Channel Sound)	
TV Receiving Channels and Frequency	VL Band	(02~06) 54MHz ~88MHz	
	VH Band	(07~13) 174MHz~216MHz	
	UHF Band	(14~69) 470MHz~806MHz	
CATV Receiving Channels and Frequency	Low Band	(02~06, A-8) by (02~06&01)	
	High Band	(07~13) by (07~13)	
	Mid Band	(A~1) by (14~22)	
	Super Band	(J~W) by (23~36)	
	Hyper Band	(W +1~W+28) by (37~64)	
	Ultra Band	(W +29~W+84) by (65~125)	
	Sub Mid Band	(A8, A4~ A1) by (01, 96~99)	
TV/CATV Total Channel		180 Channels	
Intermediate Frequency	Video IF Carrier	45.75MHz	
	Sound IF Carrier	41.25MHz (4.5MHz)	
Color Sub Carrier		3.58MHz	
Power Input		120V AC, 60Hz	
Power Consumption		140W	
Picture Tube		27" (68cm) Measured Diagonally	
High Voltage		30.0kV±1.3kV (at zero beam current)	
Speaker		2" × 4-3/4" (5 × 12cm) Oval type × 2	
Au dio Power Output		5W + 5W	
Input terminals	Input 1 (Rear)	S-Video	Y : 1V(p-p) Positive (Negative sync provided, when terminated with 75 Ω) C : 0.286V(p-p) (Burst signal, when terminated with 75 Ω)
		Video	1V(p-p), 75 Ω
		Au dio (L/MONO, R)	500mV(rms) (-4dBs), High Impedance
	Input 2 (Rear)	Video	1Vp-p, 75 Ω
		Component video	Y : 1V(p-p) Positive (Negative sync provided, when terminated with 75 Ω) P _B , P _R : 0.7V(p-p), 75 Ω
		Au dio (L/MONO, R)	500mV(rms) (-4dBs), High Impedance
	Input 3 (Front)	Video	1V(p-p), 75 Ω
		Au dio (L/MONO, R)	500mV(rms) (-4dBs), High Impedance
	Input 4 (Rear) (F or AV-27F8 03)	Component video	Y : 1V(p-p) Positive (Negative sync provided, when terminated with 75 Ω) P _B , P _R : 0.7V(p-p), 75 Ω
		Au dio (L/MONO, R)	500mV(rms) (-4dBs), High Impedance
Fix Audio Output		500mV(rms), (-4dBs), LOW Impedance (400Hz when modulated 100%)	
AV compulink III Input		3.5mm mini jack	
Ant en na terminal		75 Ω (VHF/UHF) Terminal, F-Type Connector	
Remote Control Unit		RM-C326G(AV-27F703) / RM-C326(AV-27F713) /RM-C325G(AV-27F803) (AA/R6/UM-3 battery × 2)	

Design & specifications are subject to change without notice.

SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
4. **Use isolation transformer when hot chassis.**
The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
5. **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⌋) side GND and EARTH : (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
If above note will not be kept, a fuse or any parts will be broken.
6. If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

10. Isolation Check

(Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

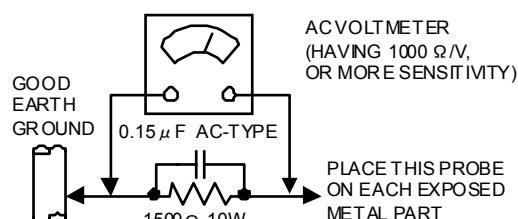
(2) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

● Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



11. High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.

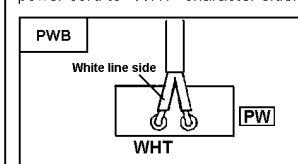
See item "How to check the high voltage hold down circuit".

This mark shows a fast operating fuse, the letters indicated below show the rating.



POWER CORD REPLACEMENT WARNING.

Connecting the white line side of power cord to "WHT" character side.



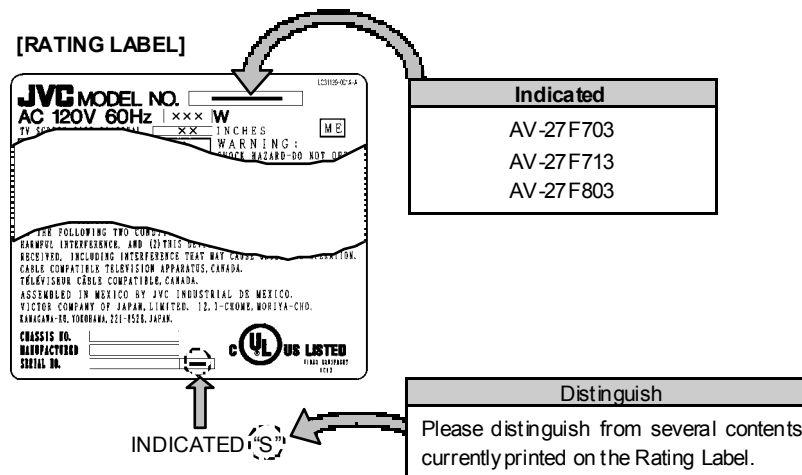
AV-27F703
AV-27F713
AV-27F803

FEATURES

- New chassis design enables use of a single board with simplified circuitry.
- Users can make fun to connect the DVD player with the component video signal input terminal.
- Provided with miniature tuner (TV/CATV).
- Multifunctional remote control permits picture adjustment.
- Adoption of the CHANNEL GUARD function prevents the specific channels from being selected, unless the "ID number" is key in.
- I²C bus control utilizes single chip ICs.
- Adoption of the VIDEO STATUS / THEATER PRO. function.
- Adoption of the ON/OFF TIMER and SLEEP TIMER function.
- Built-in V-CHIP system.
- Closed-caption broadcasts can be viewed.
- Built-in MTS system, BBE / HYPER-SURROUND system.
- S-VIDEO input terminal for taking best advantage of Super VHS.
- Digital Comb filter Improved picture quality.
- Built-in EZ SURF system.(AV-27F803)
By pushing the EZ SURF key, Back Program Information can be displayed in written from program Information uses a CALL LETTER (broadcasting station ID), a Network name and a Program name of XDS data, and collect's tuning of the tuner for PIP one by one.

HOW TO IDENTIFY MODELS

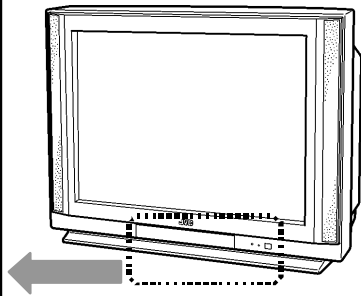
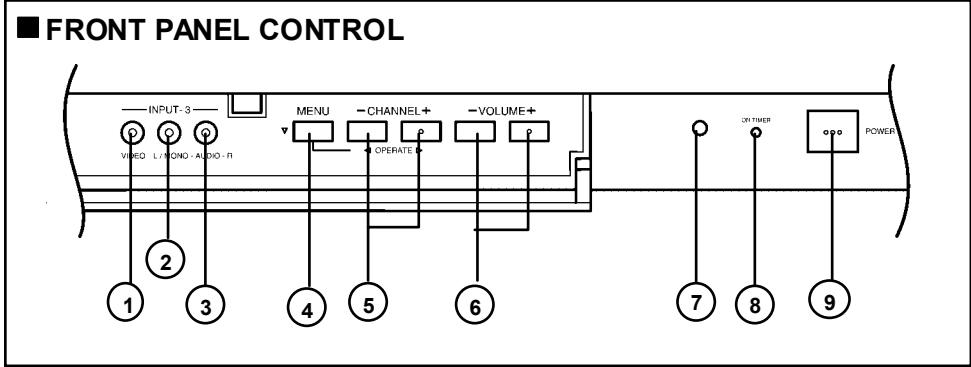
- How to recognize from the appearance of the model concerned is written below. Please distinguish from several contents currently printed on the rating label.



MAIN DIFFERENCE LIST

△	Model name Parts Name	AV-27F 703/s	AV-27F 713/s	AV-27F 803/s
	MAIN PWB	SGJ-1004A-M2	SGJ-1003A-M2	SGJ-1002A-M2
	PIP PWB	×	×	SGJ-4001A-M2
	AV SEL PWB	SGJ-5002A-M2	←	SGJ-5001A-M2
	3D Y/C SEP MODULE PWB	×	×	SGJ0Y001A-M2
△	FRONT CABI. ASSY	LC10878-003B-A	LC10878-004A-A	LC10878-003B-A
	JVC MARK	CM48006-008-C	CM48006-009-C	CM48006-008-C
△	DOOR	LC20628-001C-A	LC20628-002A-A	LC20628-001C-A
△	KNOB (POWER)	LC31237-001A-A	LC31237-002A-A	LC31237-001A-A
	OPERATION SHEET	LC31238-004A-A	LC31238-005A-A	LC31238-004A-A
△	CONTROL KNOB	LC20217-004B-A	LC20217-006A-A	LC20217-004B-A
△	TERMINAL BOARD	LC20899-004A-A	LC20899-004A-A	LC20899-005A-A
	REMOCON UNIT	RM-C326G-1A	RM-C326-1A	RM-C325G-1A
	INPUT TERMINAL	INPUT1~INPUT3	←	INPUT1~INPUT4

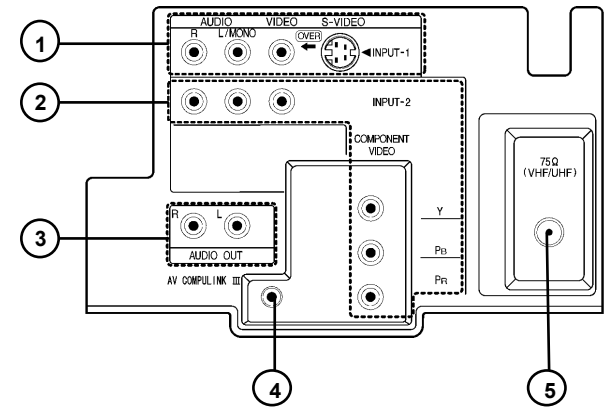
FUNCTIONS



① INPUT3 VIDEO terminal	⑥ VOLUME -/+ buttons
② INPUT3 AUDIO L / MONO terminal	⑦ SENSOR REMOTE CONTROL
③ INPUT3 AUDIO R terminal	⑧ ON TIMER LED
④ MENU button (▼)	⑨ POWER button
⑤ CHANNEL -/+ buttons OPERATE ◀▶ buttons (use MENU screen)	

REAR TERMINAL

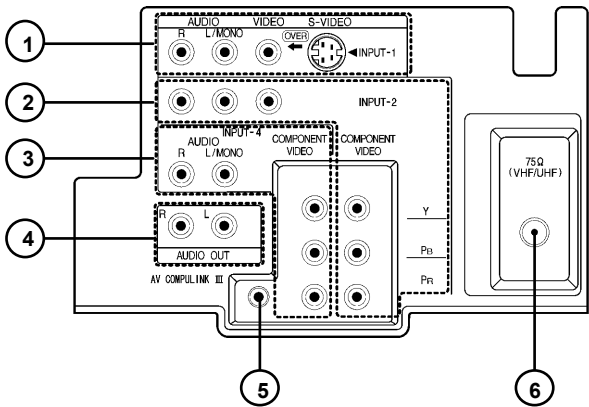
[AV-27F703/s, AV-27F713/s]



[AV-27F703/s, AV-27F713/s]

- ① INPUT 1 (S-VIDEO, V, L/MONO, R) terminals
- ② INPUT 2 (V, L / MONO, R) terminals / COMPONENT VIDEO(Y, PB, PR) terminals
- ③ AUDIO OUT(L, R) terminals
- ④ AV COMPULINK III
- ⑤ VHF / UHF terminal

[AV-27F803/s]



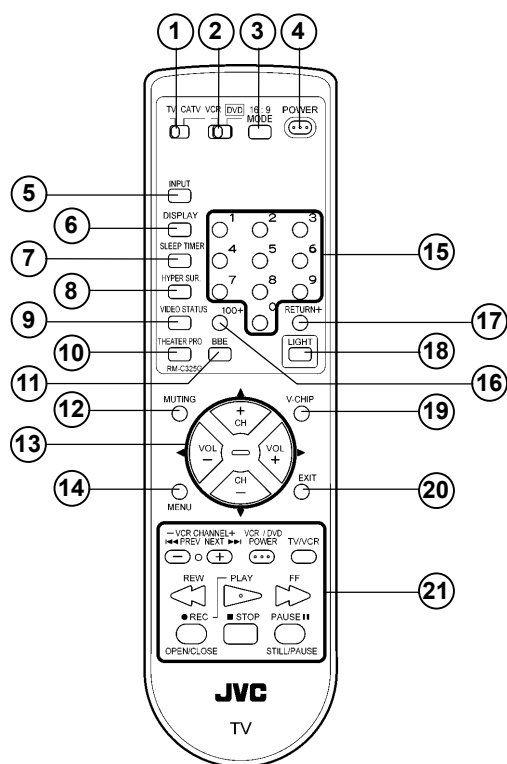
[AV-27F803/s]

- ① INPUT 1 (S-VIDEO, V, L/MONO, R) terminals
- ② INPUT 2 (V, L / MONO, R) terminals / COMPONENT VIDEO(Y, PB, PR) terminals
- ③ INPUT 4 (L, R) terminals / COMPONENT VIDEO(Y, PB, PR) terminals
- ④ AUDIO OUT(L, R) terminals
- ⑤ AV COMPULINK III
- ⑥ VHF / UHF terminal

■ REMOTE CONTROL UNIT

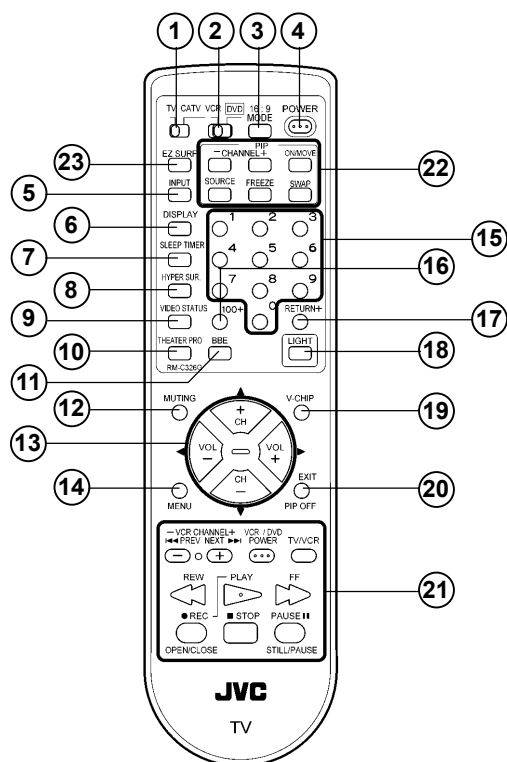
[RM-C326G : AV-27F703/s]

[RM-C326 : AV-27F713/s]



- ① TV / CATV switch
- ② VCR / DVD switch
- ③ 16 : 9 MODE Key
- ④ POWER Key
- ⑤ INPUT Key (\rightarrow TV \rightarrow VIDEO1 \rightarrow VIDEO2 \rightarrow VIDEO3 \rightarrow)
- ⑥ DISPLAY Key
- ⑦ SLEEP TIMER Key (\rightarrow 0 \rightarrow 15 \rightarrow 30165 \rightarrow 180 \rightarrow)
- ⑧ HYPER SUR. Key (Can be changed ON / OFF)
- ⑨ VIDEO STATUS Key
- ⑩ THEATER PRO key
- ⑪ BBE key (Can be changed ON / OFF)
- ⑫ MUTING Key
- ⑬ FUNCTION Key (CH -/+ / VOL -/+)
The FUNCTION keys operate CHANNEL and VOLUME normally.
These keys are also used to navigate MENU system.
- ⑭ MENU Key
- ⑮ NUMBERS Key
- ⑯ 100+ Key
- ⑰ RETURN+ Key
- ⑱ LIGHT Key
- ⑲ V-CHIP Key
- ⑳ EXIT Key
- ㉑ VCR / DVD Keys

[RM-C325G : AV-27F803/s]



- ① TV / CATV switch
- ② VCR / DVD switch
- ③ 16 : 9 MODE Key
- ④ POWER Key
- ⑤ INPUT Key (\rightarrow TV \rightarrow VIDEO1 \rightarrow VIDEO2 \rightarrow VIDEO3 \rightarrow VIDEO4 \rightarrow)
- ⑥ DISPLAY key
- ⑦ SLEEP TIMER Key (\rightarrow 0 \rightarrow 15 \rightarrow 30165 \rightarrow 180 \rightarrow)
- ⑧ HYPER SUR. Key (Can be changed ON / OFF)
- ⑨ VIDEO STATUS Key
- ⑩ THEATER PRO key
- ⑪ BBE key (Can be changed ON / OFF)
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- ⑭ MENU Key
- ⑮ NUMBERS Key
- ⑯ 100+ Key
- ⑰ RETURN+ Key
- ⑱ LIGHT Key
- ⑲ V-CHIP Key
- ⑳ EXIT / PIP OFF Key
- ㉑ VCR / DVD Keys
- ㉒ PIP Key
- ㉓ EZ SURF Key (Back Program Information can be displayed.)

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Disconnect the power plug from wall outlet.
2. As shown in the Fig.1, remove the **12** screws marked (A) .
3. Withdraw the rear cover backward.

REMOVING THE TERMINAL BOARD

- After removing the rear cover.
1. As shown in Fig.1, remove the screws marked (B) .
 2. Withdraw the terminal board toward you.

REMOVING THE CHASSIS

- After removing the rear cover / terminal board.
1. Slightly raise the both sides of chassis by hand and remove the 2 claws under the both side of the chassis from the front cabinet.
 2. Withdraw the chassis backward.
(If necessary, remove the wire clamp, connectors etc.)

REMOVING THE SPEAKER

- After removing the rear cover.
1. As shown in Fig. 1, removing the **4** screws marked (C) , then remove the speaker.
 2. Follow the same steps when removing the other hand speaker.

NOTE : When removing the **4** screws marked (C) of the speaker, remove the lower side screw first, and then remove the upper one.

REMOVING THE LED & POWER SW PWB

- After removing the rear cover & terminal board.
1. Remove the **2** screws marked (D) as shown in Fig. 1.
 2. Withdraw the LED & POWER SW PWB toward you.
- * If necessary, remove the wire clamp, connector etc.

REMOVING THE FRONT CONTROL PWB

- After removing the rear cover & terminal board.
1. Remove the **2** screws marked (E) as shown in Fig. 1.
 2. Withdraw the FRONT CONTROL PWB toward you.
- * If necessary, remove the wire clamp, connector etc.

CHECKING THE CHASSIS

To check the PW Board from back side.

1. Pull out the chassis (refer to REMOVING THE CHASSIS).
2. Erect the chassis vertically so that you can easily check the back side of the PW Board.

[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- **When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PW board.**

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.



MEMORY IC REPLACEMENT

1. Memory IC

This TV uses memory IC.

This memory IC stores data for proper operation of the video and deflection circuits.

When replacing the memory IC, be sure to use an IC containing this (initial value) data.

2. Memory IC replacement procedure

(1) Power off

Switch off the power and disconnect the power cord from the wall outlet.

(2) Replace the memory IC

Be sure to use a memory IC written with the initial setting data.

(3) Power on

Connect the power cord to the wall outlet and switch on the power.

(4) Confirm the system constant value

- 12.SYSTEM (SYS) do not adjust normally.
- The adjustment should not be done without signal.

■ How to enter the SERVICE MENU.

- 1) Press the **SLEEP TIMER** key and set **SLEEP TIMER** for 「0 min」.
- 2) Before disappear the display of **SLEEP TIMER** settings, simultaneously press the **DISPLAY** key and **VIDEO STATUS** key of the remote control unit.
- 3) The SERVICE MENU screen will be displayed as shown Fig. 1.

■ How to enter the 12. SYSTEM(SYS).

- 1) While the SERVICE MENU is displayed, select the **12.SYSTEM(SYS)** item with FUNCTION (▼/▲) keys, and the FUNCTION (◀/▶) keys is pressed, the screen will be displayed as shown in Fig.2.
- 5) Refer to the SYSTEM (SYSTEM CONSTANT) TABLE 1 and check the setting items. If the value is different, select the setting item with the FUNCTION (▼/▲) keys and adjust the setting with the FUNCTION(◀/▶) keys. (The letters of the selected item are displayed in yellow.)
- 6) When adjustment has completed, the values store into memory IC automatically
- 7) Press the EXIT key to return the SERVICE MENU screen.
- 8) Then press the EXIT key again to return the normal screen.

(5) Receive the channel setting

Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

(6) User settings

Check the user setting items according to TABLE 2.

Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

(7) SERVICE MENU setting

Verify what to set in the SERVICE MENU, and set whatever is necessary(Fig.1).

Refer to the SERVICE ADJUSTMENT for setting.

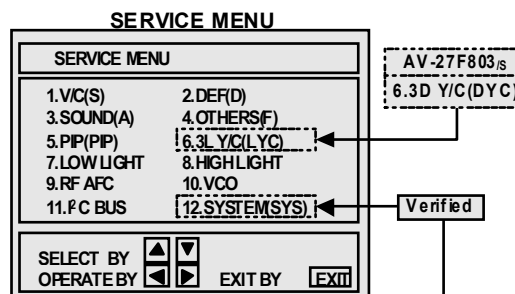


Fig.1

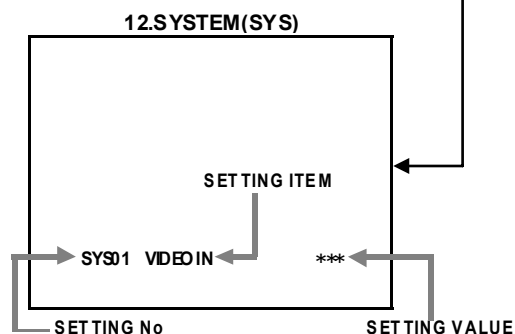
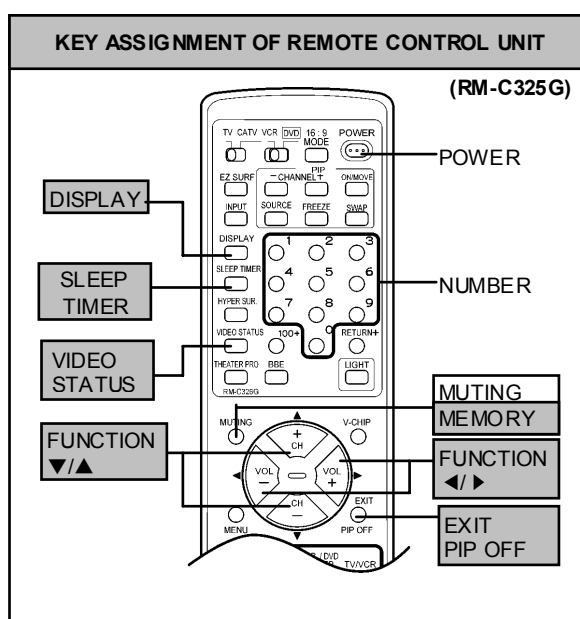


Fig.2



NOTE Although design is different, each remote controller has the same control function.

12.SYSTEM(SYS) 【System Constant setting】

No.	Setting item	Initial setting value		No.	Setting item	Initial setting value	
		AV-27F803/s	AV-27F703/s AV-27F713/s			AV-27F803/s	AV-27F703/s AV-27F713/s
SYS01	VIDEO IN	04	03	SYS13	HYP SURR	01	01
SYS02	PIP	01	00	SYS14	16:9 MD	01	01
SYS03	3D Y/C	01	00	SYS15	HYP SCAN	01	01
SYS04	Y CV	01	01	SYS16	EZ SURF	01	00
SYS05	CCD PCHK	01	01	SYS17	ID DISP	01	01
SYS06	PURITY	00	00	SYS18	COMPULINK	01	01
SYS07	VM	01	01	SYS19	CCD	01	01
SYS08	NOISE CR	01	00	SYS20	VCHIP	01	01
SYS09	CLR TEMP	01	01	SYS21	VCHIP CA	01	01
SYS10	THEATER	01	01	SYS22	JVC LOGO	01	01
SYS11	THEATER PRO	01	01	SYS23	CMP IN	01	01
SYS12	BBE	01	01	SYS24	CXA1875	00	00

Table 1

User setting

Setting item	Setting value	Setting item	Setting value
Use remote controller keys			
POWER	OFF	DISPLAY	OFF
CHANNEL	Cable-02	VIDEO STATUS	DYNAMIC
VOLUME	10	HYPERSURROUND	OFF
TV/VIDEO	TV	BBE	ON
		PIP SOURCE	Cable-04 (AV-27 F8 03 _S)
Settings of MENU			
PICTURE MENU		INITIAL SETUP MENU	
STANDARD		LANGUAGE	ENG
TINT	CENTER	FRONT PANEL LOCK	OFF
COLOR	CENTER	V2 COMPONENT-IN	NO
PICTURE	CENTER+14	AUTO SHUT OFF	OFF
BRIGHT	CENTER	CLOSED CAPTION	OFF (CC1 / T1)
DETAIL	CENTER / +14 (AV-27 F8 03 _S) +10 (AV-27 F7 03 _S / AV-27 F713 _S)	AUTO TUNER SET UP	Unnecessary to set
COLOR TEMPERATURE	LOW	CHANNEL SUMMARY	Setting Channel Guard channel : All OFF
NOISE MUTING	ON	V-CHIP	OFF
SOUND ADJUST MENU		SET LOCK CODE	(0000) Unnecessary to set
BASS	CENTER	XDS ID	ON
TREBLE	CENTER		
BALANCE	CENTER		
MTS	STEREO		
CLOCK / TIMERS MENU			
SET CLOCK	MANUAL		
	TIME ZONE : PACIFIC		
	D.S.T. : OFF		
ON / OFF TIMER	OFF		

Table 2

SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION

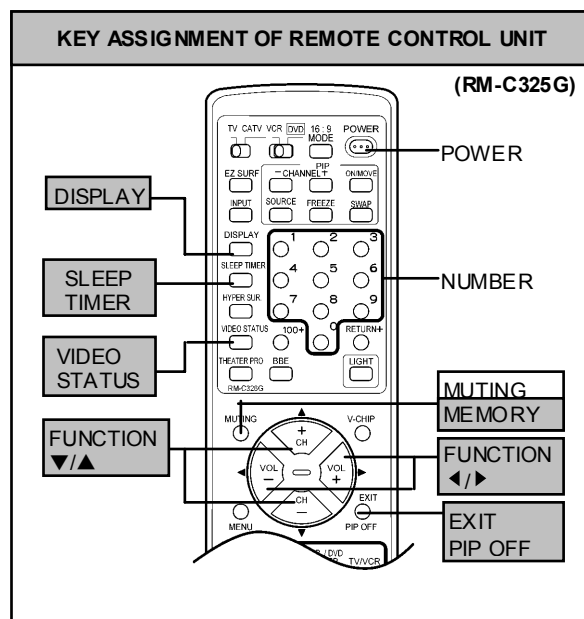
1. You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as given below.
2. Adjustment with the Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.
3. Make sure that AC power is turned on correctly.
4. Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting for at least 30 minutes.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. **Never touch any adjustment part** which are not specified in the list for this adjustment - variable resistors, transformers, initial setting value, etc.
7. Presetting before adjustment.
Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

User menu preset value

MENU ITEM	PRESET
VIDEO STATUS	STANDARD
BASS, TREBLE, BALANCE	CENTER
HYPER SURROUND	OFF
TINT, COLOR, PICTURE, BRIGHT, DETAIL	CENTER
MTS	STEREO

ADJUSTMENT EQUIPMENT

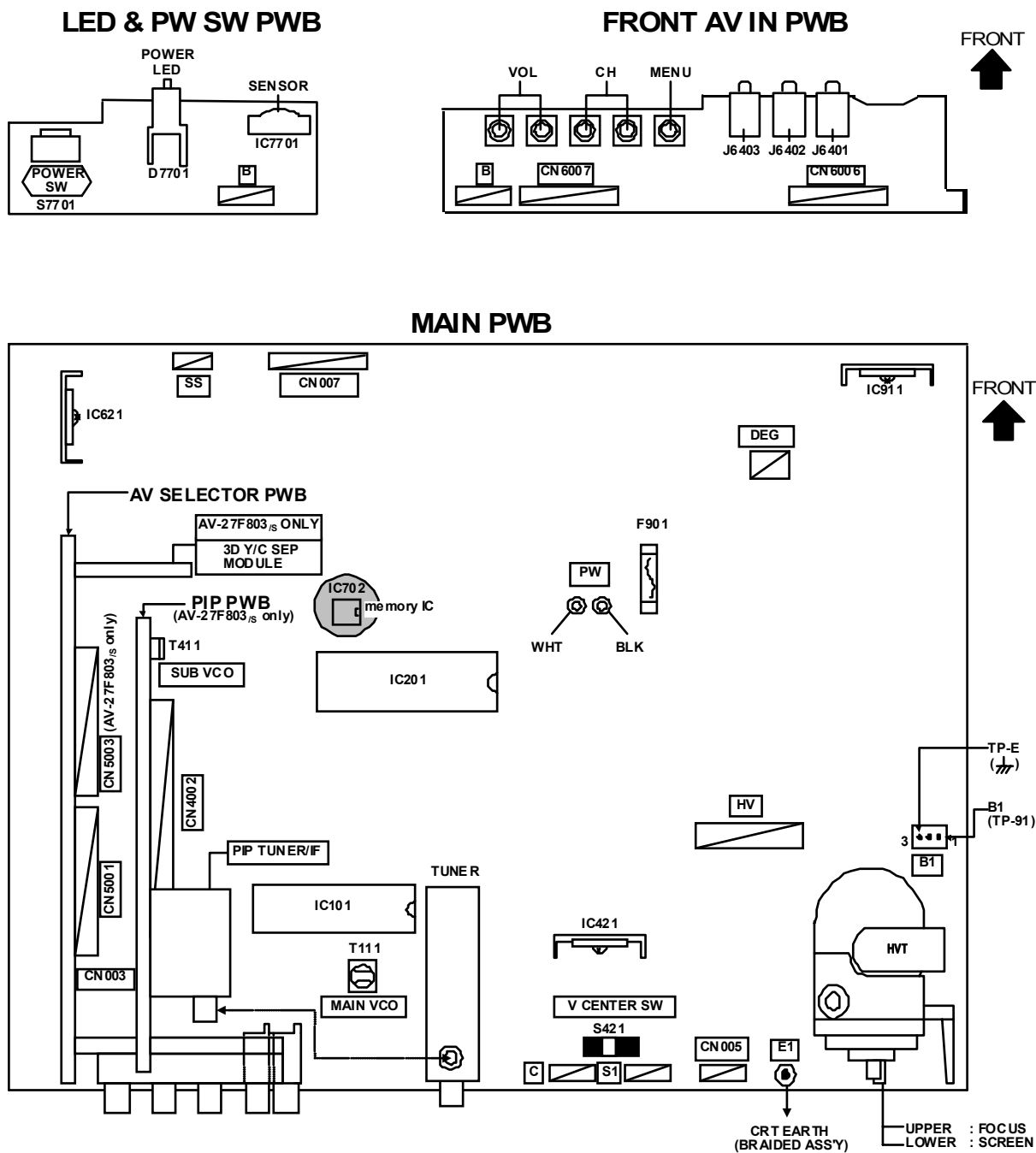
1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [NTSC]
4. Remote control unit
5. TV audio multiplex signal generator.
6. Frequency counter



ADJUSTMENT ITEMS

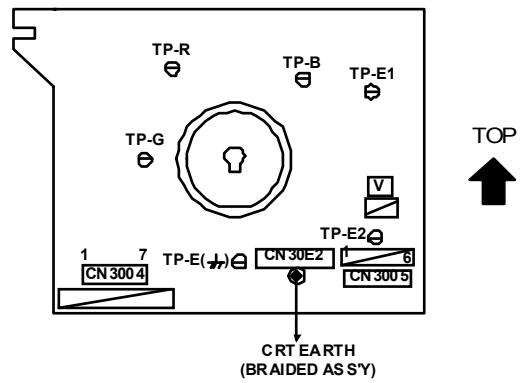
• CHECK OF B1 POWER SUPPLY	• ADJUSTMENT OF VIDEO / CHROMA CIRCUIT
• ADJUSTMENT OF VCO	WHITE BALANCE(High Light & Low Light) adjustment
MAIN VCO adjustment	PIP WHITE BALANCE(High Light) adjustment
SUB VCO adjustment	SUB BRIGHT adjustment
RF. AGC adjustment	SUB CONTRAST adjustment
• FOCUS adjustment	SUB COLOR adjustment
• ADJUSTMENT DEF CIRCUIT	SUB TINT adjustment
V. HEIGHT / V. CENTER(4:3) adjustment	• ADJUSTMENT OF MTS CIRCUIT
V. HEIGHT / L. LIN(16:9) adjustment	MTS INPUT LEVEL adjustment
H. POSI, H. SIZE & SIDE PIN [(4:3) & (16:9)] adjustment	MTS SEPARATION adjustment
PIP DISPLAY POSI adjustment	• HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

ADJUSTMENT LOCATIONS

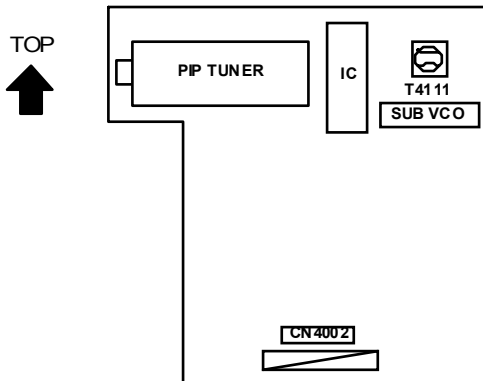


AV-27F703
 AV-27F713
 AV-27F803

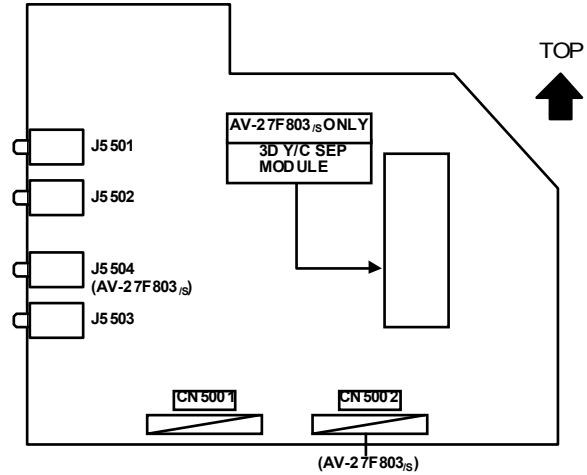
CRT SOCKET PWB



PIP PWB (AV-27F803^(S))



AV SELECTOR PWB



BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. In general, basic setting (adjustments) items or verifications are performed in the SERVICE MENU.

- (1) V/C (S) This set the setting values (adjustment values) of the VIDEO/CHROMA circuits.
- (2) DEF (D) This set the setting values (adjustment values) of the DEFLECTION circuit.
- (3) SOUND (A) This set the setting values (adjustment values) of the AUDIO circuit.
- (4) OTHERS (F) This is used when the OTHERS MODE is verified. **[Do not adjust]**
- (5) PIP (PIP) This set the setting values(adjustment values) of the PICTURE-IN-PICTURE circuit.
(PIP is means as Picture In Picture) **[AV-27F803/S]**
- (6) 3L Y/C(LYC) / 3DY/C(DYC) This is used when the 3L(or 3D) Y/C MODE is verified. **[Do not adjust]**
[3L Y/C(LYC) =AV-27F703_S, AV-27F713/S / 3D Y/C(DYC)=AV-27F803_S]
- (7) LOW LIGHT This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
- (8) HIGH LIGHT This sets the setting values (adjustment values) of the WHITE BALANCE circuit
- (9) RF AFC This is used when the RF AFC MODE is verified. **[Do not adjust]**
- (10)VCO This is used when the IF VCO is adjusted.
- (11)I²C BUS This is used when ON/OFF of the I²C BUS CTRL is set. **[Fixed ON]**
- (12)SYSTEM (SYS) This is used when the SYSTEM is verified. **[Fixed value]**

3. Basic Operations of the SERVICE MENU

(1) How to enter the SERVICE MENU.

Press the **SLEEP TIMER** key and set the **SLEEP TIMER** for 「0 MIN」.

Then press the **DISPLAY** key and **VIDEO STATUS** key of the remote control unit at the same time to enter the SERVICE MENU screen.(FIG.1)

(2) SERVICE MENU screen selection

In SERVICE MENU, press the FUNCTION (▼/▲) key to select any of the SUB MENU items.

(The letters of the selected items are displayed in yellow.)

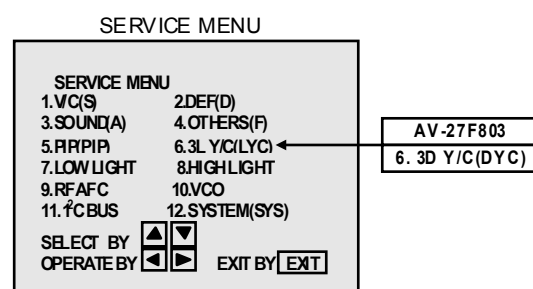


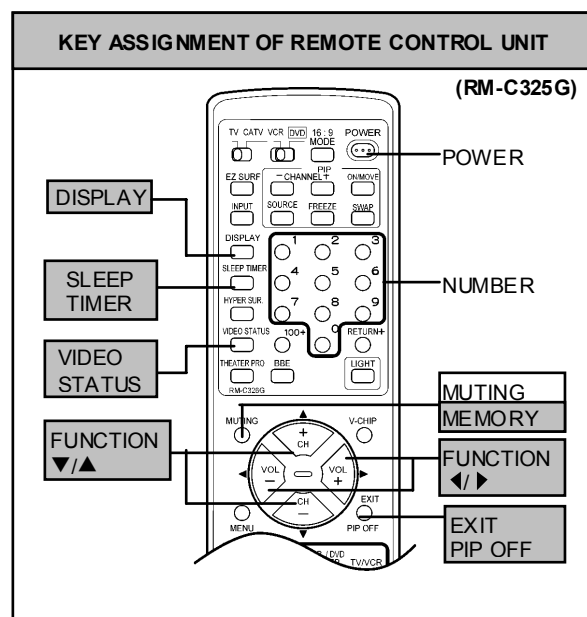
Fig.1

(3) Enter the any setting (adjustment) mode

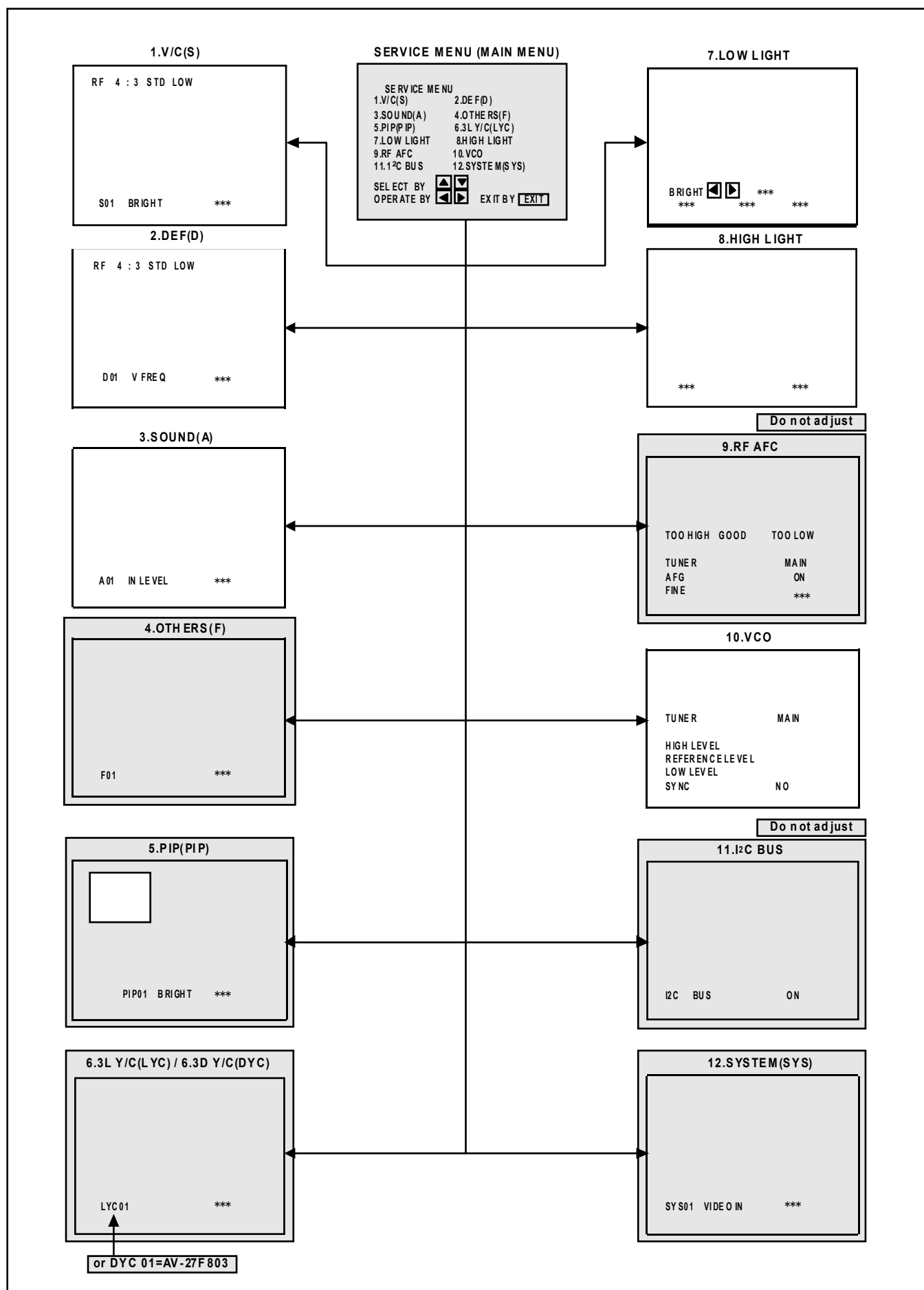
- 1. V/C(S), 2. DEF(D), 3. SOUND(A), 4. OTHERS(F), 5. PIP(PIP), 6. 3L Y/C(LYC) [AV-27F703_S / AV-27F713_S] / 3D Y/C(DYC) [AV-27F803_S], 7. LOW LIGHT, 8. HIGH LIGHT, 9. RF AFC, 10. VCO, 11. I²C BUS and 12. SYSTEM(SYS) mode.

- 1) If select any of 1. V/C(S) / 2. DEF(D) / 3. SOUND(A) / 4. OTHERS(F) / 5. PIP(PIP) / 6. 3L Y/C(LYC) [AV-27F703_S / AV-27F713_S] , 3D Y/C(DYC) [AV-27F803_S] / 7. LOW LIGHT / 8. HIGH LIGHT / 9. RF AFC / 10. VCO / 11. I²C BUS / 12. SYSTEM(SYS) items, and the FUNCTION (◀/▶) key is pressed from SERVICE MENU (MAIN MENU), the each screens will be displayed as shown in figure page later.

- 2) Then the settings or verifications can be performed

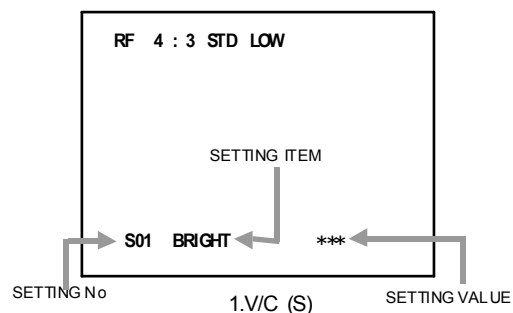


NOTE Although design is different, each remote controller has the same control function.



(4) Setting method

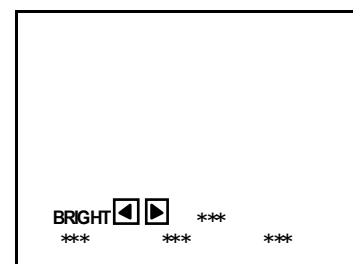
- 1) FUNCTION (▼/▲) key.
Select the SETTING ITEM.
- 2) FUNCTION (◀/▶) key
Setting (adjust) the SETTING VALUE of the SETTING ITEM.
When the key is released the SETTING VALUE will be stored (memorized).
- 3) EXIT key
Returns to the previous screen.



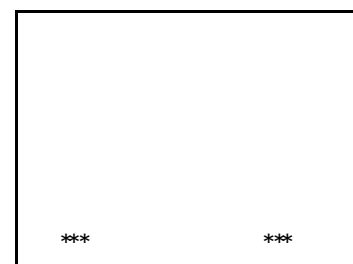
(5) Releasing SERVICE MENU

- 1) After returning to the SERVICE MENU upon completion of the setting (adjustment) work, press the EXIT key again.

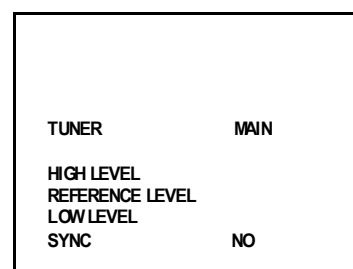
- ★ The settings for LOW LIGHT and HIGH LIGHT are described in the WHITE BALANCE page of ADJUSTMENT.
- ★ The setting for MAIN VCO are described in the VCO page of ADJUSTMENT.



7.LOW LIGHT



8.HIGH LIGHT



10.VCO

AV-27F703
AV-27F713
AV-27F803

INITIAL SETTING VALUE OF SERVICE MENU

- Adjustment of the SERVICE MENU is made on the basis of the initial setting values ; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
- Do not change the initial setting values of the setting (adjustment) items not listed in "ADJUSTMENT".

• V / C MODE

-- can not be adjustment

No.	Setting item	RF						STANDARD(4:3)			
		AV -27F803/s			AV -27F703/s,AV-27F713/s			EXTERNAL (S,CV)		COMPONENT	
		STD(4:3)	STD(16:9)	THEATER (4:3)	STD(4:3)	STD(16:9)	THEATER (4:3)	AV-27 F8 03 _S	AV-27 F7 03 _S AV-27 F7 13 _S	AV-27 F8 03 _S	AV-27 F7 03 _S AV-27 F7 13 _S
S01	BRIGHT	64	--	--	64	--	--	--	--	--	--
S02	PICTURE	60	--	--	60	--	--	--	--	--	--
S03	COLOR	50	--	--	50	--	--	--	--	46	46
S04	TINT	68	--	--	68	--	--	--	--	72	72
S05	DETAIL	38	--	--	33	--	--	40	35	45	40
S06	BRIGHT +-	--	± 00	+01	--	± 00	+01	-01	-02	± 00	± 00
S07	PICT+-	--	-08	-10	--	-08	-10	± 00	± 00	± 00	± 00
S08	COLOR+-	--	± 00	-03	--	± 00	-03	-02	-02	--	--
S09	TINT+-	--	± 00	-03	--	± 00	-03	+11	+05	--	--
S10	DETAIL+-	--	--	± 00	--	--	± 00	--	--	--	--

No.	Setting item	Initial setting value							
		RF/EXT (S,CV)				COMPONENT			
		STANDARD		THEATER		STANDARD		THEATER	
		LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
S11	R CUT OFF	30	--	--	--	--	--	--	--
S12	G CUT OFF	30	--	--	--	--	--	--	--
S13	B CUT OFF	30	--	--	--	--	--	--	--
S14	R DRIVE	64	--	--	--	--	--	--	--
S15	B DRIVE	64	--	--	--	--	--	--	--
S16	R CUT +-	--	± 00	± 00	± 00	-10	--	--	--
S17	G CUT +-	--	± 00	± 00	± 00	± 00	--	--	--
S18	B CUT +-	--	± 00	± 00	± 00	-10	--	--	--
S19	R DRV +-	--	+05	+13	+07	± 00	--	--	--
S20	B DRV +-	--	+06	-25	-09	± 00	--	--	--
S21	NTSC MAT	03	03	01	01	02	02	01	01
S22	BLACK ST	02	--	02	--	--	--	--	--
S23	DCREST	01	--	01	--	--	--	--	--
S24	DCRSW	01	--	01	--	--	--	--	--

No.	Setting item	Initial setting value		
		RF	EXTERNAL	COMPONENT
S25	ASY SHRP	04	04	04
S26	BPF FO	00	00	--
S27	KILR OFF	00	00	--
S28	KILR SEN	01	01	--

No.	Setting item	Initial setting value	No.	Setting item	Initial setting value
S29	RGB MUTE	00	S39	Y MUTE	00
S30	BLUE B	00	S40	SVM GAIN	03
S31	VIDEO SW	03	S41	SVM PH	01
S32	CMP ABCL	00	S42	WPL	00
S33	OSD ABCL	00	S43	COL GMM	00
S34	OSD CONT	07	S44	V1 GAIN	04
S35	SUB CONT	05	S45	AGC ADJ	63
S36	ABL GAIN	00	S46	VMOFF DE	+03
S37	ABL PNT	03	S47	APC CLK	01
S38	Y GAMMA	01			

● DEF MODE

-- can not be adjustment

No .	Setting item	Initial setting value			No .	Setting item	Initial setting value		
		AV -27F803/s,AV-27F703/s AV -27F713/s					AV -27F803/s,AV-27F703/s AV -27F713/s		
		RF (4:3)	RF (16:9)	EXT (4:3)			RF (4:3)	RF (16:9)	EXT (4:3)
D01	V FREQ	00	00	03	D18	WVMT BTM	00	01	00
D02	AFC GAIN	00	00	02	D19	EWCR TOP	12	--	12
D03	H POSI	20	--	20	D20	EWCR T+-	--	00	--
D04	H POSI+-	--	00	--	D21	EWCR BTM	14	--	14
D05	V PHASE	00	--	00	D22	EWCR B+-	--	00	--
D06	V PH+-	--	00	--	D23	EW PARA	36	--	36
D07	V SIZE	75	--	75	D24	EW PARA+-	--	-15	--
D08	V SIZE+-	--	-30	--	D25	V EHT	00	--	00
D09	V CENTER	32	--	32	D26	V EHT+-	--	00	--
D10	V CENT+-	--	00	--	D27	H EHT	00	--	00
D11	V S CORR	09	--	09	D28	H EHT+-	--	00	--
D12	V S CO+-	--	00	--	D29	TRAPEZ	31	--	31
D13	V LIN	10	--	10	D30	TRAPEZ+-	--	00	--
D14	V LIN+-	--	00	--	D31	V AGC	00	00	00
D15	H SIZE	33	--	33	D32	BLANK SW	00	00	00
D16	H SIZE+-	--	00	--	D33	VRMP BI	00	00	00
D17	WVMT TOP	00	01	00					

● SOUND MODE

No.	Setting item	Initial setting value
A01	IN LEVEL	10
A02	LOW SEP	32
A03	HI SEP	32
A04	SAPC	00
A05	BBE BASS	±00
A06	BBE TRE	-03

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AV-27F803

● OTHERS MODE (Do not adjust)

Setting item do not display

No.	Setting item	Initial setting value		No.	Setting item	Initial setting value	
		AV-27F803/s	AV-27F703/s AV-27F713/s			AV-27F803/s	AV-27F703/s AV-27F713/s
F01	OSD POSI	37	37	F15	VCSN 1	00	00
F02	OSD PREQ	90	90	F16	VCSN 2	10	10
F03	CCD POSI	39	39	F17	VCSN 3	20	20
F04	CCD FREQ	91	91	F18	VCSN STP	02	02
F05	CCD CONT	04	04	F19	VN DAT A	+08	+08
F06	PURWBCK	00	00	F20	VM DAT B	-08	-08
F07	PUR CONT	02	02	F21	VM DAT C	-20	-20
F08	SN TYPE	01	02	F22	VM DAT D	-32	-32
F09	YCSN TM	05	05	F23	VM DAT E	01	01
F10	YCSN E	05	05	F24	VMOFF TY	02	02
F11	YCSN F	16	16	F25	YC VMOFF	255	255
F12	YCSN G	32	32	F26	EZSF TM	40	40
F13	VNR CHK	03	03	F27	XDSID TM	15	15
F14	VCSN TM	05	05	F28	FM TRAP	01	01

● 3L Y / C MODE (Do not adjust)

No.	Setting item	Initial setting value
		AV-27F703/s,AV-27F713/s
LYC01	MODE	04
LYC02	VENH	01
LYC03	PDSOFF	00
LYC04	CB	00
LYC05	VNLR	02
LYC06	GSEL0	00
LYC07	GSEL1	01
LYC08	COR	00
LYC09	TRAP	01
LYC10	CHTRAP	00
LYC11	CBPF	00
LYC12	ENHOFF	00

● 3DY / C MODE [AV-27F803/s]

No.	Setting item	Initial setting value	No.	Setting item	Initial setting value
DYC01	D7-0	21	DYC15	D7-0	09
DYC02	D7-4	00	DYC16	D7-0	241
DYC03	D1-0	00	DYC17	D7-0	37
DYC04	D7-0	193	DYC18	D7-0	08
DYC05	D7-3	04	DYC19	D7-0	68
DYC06	RF CDL	02	DYC20	D7-0	48
DYC07	EXT CDL	02	DYC21	D7-0	08
DYC08	D7-0	42	DYC22	D7-0	51
DYC09	D7-0	36	DYC23	D7-0	200
DYC10	D7-0	34	DYC24	D7-0	74
DYC11	D7-0	01	DYC25	D7-0	236
DYC12	D5-0	22	DYC26	D7-0	00
DYC13	D7-0	00	DYC27	D7-0	00
DYC14	D7-0	15	DYC28	3DYC	01

● PIP MODE (Do not adjust)[AV-27F803/s]

No.	Setting item	Initial setting value	No.	Setting item	Initial setting value
PIP01	BRIGHT	00	PIP27	UVPOLAR	00
PIP02	PICTURE	30	PIP28	MAT	01
PIP03	TINTI	42	PIP29	YCOR	01
PIP04	COLOR	06	PIP30	XFREQF	01
PIP05	R CUTOFF	00	PIP31	WTCHDG	01
PIP06	G CUTOFF	00	PIP32	COLON	00
PIP07	B CUTOFF	00	PIP33	ACQNEW	00
PIP08	R DRIVE	63	PIP34	DSTDET	01
PIP09	G DRIVE	65	PIP35	CRIBEOK	00
PIP10	B DRIVE	65	PIP36	FCBEOK	00
PIP11	L POSI	22	PIP37	NOCRID	00
PIP12	R POSI	15	PIP38	NONSED	00
PIP13	UPR POSI	12	PIP39	PIP ADJ	04
PIP14	LWR POSI	11	PIP40	BRI EXT	00
PIP15	PICT LCK	01	PIP41	PCT EXT	00
PIP16	SELDEL	00	PIP42	TNT EXT	00
PIP17	AGCFIX	01	PIP43	COR EXT	00
PIP18	AGCADST	00	PIP44	R-D EXT	00
PIP19	AGC	07	PIP45	G-D EXT	00
PIP20	BLKINVB	00	PIP46	B-D EXT	00
PIP21	BLKINVR	00	PIP47	BRT COMP	00
PIP22	VSPDEL	00	PIP48	PCT COMP	00
PIP23	VSPISQ	01	PIP49	TNT COMP	40
PIP24	RGBIN	00	PIP50	COR COMP	05
PIP25	FRSEL	01	PIP51	R-D COMP	00
PIP26	OUTFOR	00	PIP52	G-D COMP	00
			PIP53	B-D COMP	00

NOTE The AV-27F703/s, AV-27F713/s model do not have PIP function, But, if memory data is out of variable range, occasionally some problems happen. Then we need to input these data.

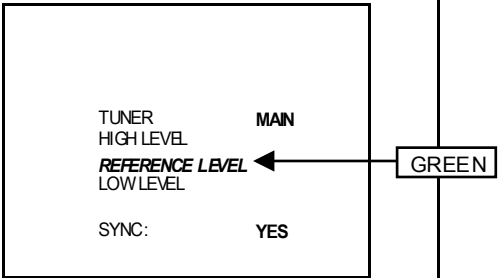




AV-27F703
AV-27F713
AV-27F803

■ ADJUSTMENTS

B1 POWER SUPPLY

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 POWER SUPPLY	DC Voltmeter	【B1】 Connector (pin1 & pin3) TP-91(pin1) TP-E(⚡):(pin3)		1. Receive the black-and-white signal. (color off) 2. Connect the DC voltmeter to 【B1】 connector pin 【1】 (TP-91) and TP-E(⚡) (B1 connector pin 【3】). 3. Confirm that the voltage is DC134.5V±2V.

ADJUSTMENT OF VCO

Item	Measuring instrument	Test point	Adjustment part	Description
MAIN VCO adjustment 	Signal generator		10:VCO MAIN CW TRANSF(T111) [MAIN PWB]	<ul style="list-style-type: none"> It must not adjust without signal 1. Receive color bar signal. 2. Enter the SERVICE MENU mode. 3. Press the  key, and select the 10:VCO mode from the SERVICE MENU. 4. Push the FUNCTION  key, and select MAIN. 5. Confirm that the color change from HIGH LEVEL to LOW LEVEL by CW TRANSF T111 at MAIN PWB, and check the SYNC : YES . 6. Adjust until REFERENCE LEVEL mark turns green. And then confirm that the SYNC : YES again. 7. Press the EXIT key to get out SERVICE MENU.
SUB VCO adjustment (AV-27F803 ONLY)	Signal generator		10:VCO	<ul style="list-style-type: none"> It must not adjust without signal 1. Receive color bar signal. 2. Enter the SERVICE MENU mode. 3. Press the FUNCTION () key, and select the 10:VCO mode from the SERVICE MENU. 4. Push the left / right () key, and select SUB. 5. Confirm that the change from HIGH LEVEL to LOW LEVEL by CW transformer T4111 at PIP PWB, and check the SYNC : YES . 6. Adjust until REFERENCE LEVEL mark turns green. And then confirm that the SYNC : YES again. 7. Press the EXIT key to get out SERVICE MENU screen.

ADJUSTMENT OF RF AGC

Item	Measuring instrument	Test point	Adjustment part	Description								
RF. AGC adjustment			S45:AGC ADJ	<div><div></div><div><div><table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S45</td><td>AGC ADJ</td><td>0 ~ 127</td><td>63</td></tr></table></div><div></div></div><div><div></div><div></div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> <div><div></div><div></div></div> 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No.	Setting item	Variable range	Initial setting value									
S45	AGC ADJ	0 ~ 127	63									

ADJUSTMENT OF FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator		FOCUS VR [In HVT]	<ol style="list-style-type: none"> 1. Receive the cross-hatch signal. 2. While looking at the screen, adjust the FOCUS VR to the vertical and horizontal lines will be thinnest and sharpest center horizontal line. 3. Make sure that the picture is in focus even when the screen gets darkened.

ADJUSTMENT OF DEFLECTION CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT V. CENTER adjustment (4:3)	Signal generator		D05:V PHASE D07:V SIZE V. CENTER SW (S1421) [MAIN PWB]	<div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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Item	Measuring instrument	Test point	Adjustment part	Description
V. HEIGHT V. LINEARITY adjustment (16:9)	Signal generator		D18:V. SIZE+ D14:V. LINE+	<p>* Regular (4:3) size V. HEIGHT / V. CENTER adjustment s should be finished.</p> <p>1. Receive a black -and- white signal (color off).</p> <p>2. Select 16:9 aspect mode with remote control unit.</p> <p>3. Confirm that the width of V. BLANKING is equal to adjustment value (B).</p> <p>4. If the adjustment is not correct, enter the SERVICE MENU.</p> <p>5. Then adjust the D 08:V. SIZE+- and D 14:V. LIN+- to be same to adjustment value (B).</p> <p>6. Press the EXIT key to twice to return the normal screen.</p> <p>(NOTE)</p> <p>* When you change the VERTICAL adjustment value of the regular mode (4:3), Review the adjustment of 16:9 mode again.</p>
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Item	Measuring instrument	Test point	Adjustment part	Description	
H. POSITION H. SIZE & SIDE PIN adjustment (16:9)	Signal generator		D04:H.POSI+- D16:H. SIZE+- D20:EW CR T+- D22:EW CR B+- D24:EW PARA+-	<ul style="list-style-type: none">* V. HEIGHT / V. POSITION adjustment should be finished.* H. SIZE, H. POSI and SIDE PIN adjustment should be finished. (Regular size(4:3)). <div><div>1. Receive the cross-hatch signal.</div><div>2. Select 16:9 aspect mode with remote control unit.</div><div>3. Enter the SERVICE MENU.</div><div>4. Confirm both sides of cross-hatch to be the adjustment value 90%.</div><div>5. If it not correct, adjust to be value 90% at the D16:H. SIZE +- and D04:H.POSI+-.</div><div>6. Confirm the vertical 2nd line from left and right to be straight.</div><div>7. If it is not straight, adjust to be straight at D24:EW PARA+-, D20:EW CR T+- and D22:EW CR B+-.</div></div> <div>(NOTE)</div> <div><ul style="list-style-type: none">* Review the adjustment of 16:9 mode again when you change the SIDE PIN adjustment value of regular (4:3) mode.</div>	
<div><div><div><div><div>(H)</div><div>Screen size 90.0%</div></div><div><div>(V)</div><div>Screen size 90.0%</div></div></div><div><div><div><div>Picture size 100%</div></div><div><div>Picture size 100%</div></div></div></div></div></div>					
No.	Setting item	Variable range	Setting value		
D04	H. POSI+-	-128~+127	00		
D16	H. SIZE+-	-128~+127	00		
D20	EW CR T+-	-128~+127	00		
D22	EW CR B+-	-128~+127	00		
D24	EW PARA+-	-128~+127	00		
PIP DISPLAY POSITION adjustment (AV-27F 803/s)	Signal generator		PIP11:L POSI. PIP12:R POSI. PIP13:UPR POSI. PIP14:LWR POSI.	<ul style="list-style-type: none">* Main picture's V. HEIGHT, V. POSI, H. SIZE, H. POSI. Should be finished.* Set the VIDEO STATUS to STANDARD. <div><div>1. Receive a black -and- white signal (color off)</div><div>2. Enter the SERVICE MENU.</div><div>3. Select the 5:PIP(PIP) from SERVICE MENU.</div><div>4. Set the initial setting value of the PIP13:UPR POSI. with the (◀/▶) key of the remote control unit.</div><div>5. Adjust the PIP13:UPR POSI. so that he position of the PIP screen edge of upper will be at X1 as shown.</div><div>6. Adjust the corresponding modes of PIP14, PIP11, PIP12 with the same steps as 3~5 above.</div></div>	
<div><div><div>PIP screen</div><div><div><div><div>X1</div><div>(UPPER POSI.)</div></div><div><div>X2</div><div>(LOWER POSI.)</div></div><div><div>Y1</div><div>(LEFT POSI.)</div></div><div><div>Y2</div><div>(RIGHT POSI.)</div></div></div></div></div></div>					
Item No.	Setting item	Variable range	setting value	Setting position	
				POSI.	(%)
PIP13	UPR POSI	0~127	12	X1	80
PIP14	LWR POSI	0~127	11	X2	80
PIP11	L. POSI	0~255	22	Y1	80
PIP12	R. POSI	0~255	15	Y2	80

ADJUSTMENT OF VIDEO / CHROMA CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (Low Light) adjustment	Signal generator		S01: BRIGHT S11: R CUTOFF S12: G CUTOFF S13: B CUTOFF SCREEN VR [in HVT]	<div><div>[LOW LIGHT]</div><div><div>BRIGHT ◀ ▶ ***</div><div>***</div><div>***</div></div><div>↓</div><div><div>[H.LINE SCREEN]</div></div></div> <div><div>REMOTE CONTROL UNIT</div><div><div>H.LINE ON ① R CUTOFF ▲ ④ R CUTOFF ▼ ⑦</div><div>H.LINE OFF ② G CUTOFF ▲ ⑤ G CUTOFF ▼ ⑧</div><div>EXIT ③ B CUTOFF ▲ ⑥ B CUTOFF ▼ ⑨</div></div></div> <div><div>1. Receive the black and white signal (color off).</div><div>2. Select the LOW LIGHT mode from the SERVICE MENU.</div><div>3. Confirm the initial setting value of R CUTOFF, G CUTOFF, B CUTOFF and BRIGHT.</div><div>4. Display a single horizontal line by pressing the ① key of the remote control unit.</div><div>5. Turn the screen VR all the way to the left.</div><div>6. Turn the screen VR gradually to the right from the left until either one of the red, blue or green colors appears faintly.</div><div>7. Adjust the two colors which did not appear until the single horizontal line that is displayed becomes white using the ④ to ⑨ keys of the remote control unit.</div><div>8. Turn the screen VR until the single horizontal line is displayed faintly.</div><div>9. Press the ② key to cancel the single horizontal line mode.</div><div>10. Adjust the BRIGHT level to become the black component shines white slightly.</div><div>11. Confirm that whether the color ingredient of R, G, or B is visible to the black component, which shines white slightly</div><div>12. When the color ingredient can be seen, two colors other than a visible color are adjusted, and it is made to look white.</div><div>13. Return the value of BRIGHT to initial setting value.</div><div>●The ③ EXIT key is the cancel key for the WHITE BALANCE.</div></div>

No.	Setting item	Variable range	Initial setting value
S11	R CUT OFF	0~255	30
S12	G CUT OFF	0~255	30
S13	B CUT OFF	0~255	30
S01	BRIGHT	0~127	64

Item	Measuring instrument	Test point	Adjustment part	Description												
WHITE BALANCE (High Light) adjustment	Signal generator		S14:R DRIVE S15:B DRIVE	<div><div>1. Receive the black-and-white signal (color off).</div><div>2. Select the HIGH LIGHT mode in the SERVICE MENU.</div><div>3. Set the initial setting value of R DRIVE and B DRIVE with the ④, ⑥, ⑦and ⑨ keys of the remote control unit.</div><div>4. Adjust the screen until it becomes white using the ④, ⑥, ⑦ and ⑨ keys of the remote control unit.</div><div>●The ③ EXIT key is the cancel key for the WHITE BALANCE.</div></div> <div><table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S14</td><td>R DRIVE</td><td>0~127</td><td>64</td></tr><tr><td>S15</td><td>B DRIVE</td><td>0~127</td><td>64</td></tr></table></div>	No.	Setting item	Variable range	Initial setting value	S14	R DRIVE	0~127	64	S15	B DRIVE	0~127	64
No.	Setting item	Variable range	Initial setting value													
S14	R DRIVE	0~127	64													
S15	B DRIVE	0~127	64													
PIP WHITE BALANCE (High Light) adjustment (AV-27 F8 03 ONLY)	Signal generator		PIP08:R DRIVE PIP10:B DRIVE	<div><div>1. Receive the black-and-white signal (color off).</div><div>2. Select the PIP08:R DRIVE, PIP10:B DRIVE, of the 5.PIP(PIP) SERVICE MENU.</div><div>3. Set the corresponding initial setting values with the FUNCTION (◀/▶) key of the remote control unit.</div><div>4. Adjust the PIP08:R DRIVE, PIP10:B DRIVE until the screen becomes white.</div></div> <div><table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>PIP08</td><td>R DRIVE</td><td>0~255</td><td>63</td></tr><tr><td>PIP10</td><td>B DRIVE</td><td>0~255</td><td>65</td></tr></table></div>	No.	Setting item	Variable range	Initial setting value	PIP08	R DRIVE	0~255	63	PIP10	B DRIVE	0~255	65
No.	Setting item	Variable range	Initial setting value													
PIP08	R DRIVE	0~255	63													
PIP10	B DRIVE	0~255	65													

Item	Measuring instrument	Test point	Adjustment part	Description
SUB BRIGHT adjustment			S01:BRIGHT	<div><div><div>No.</div><div>Setting item</div><div>Variable range</div><div>Initial setting value</div></div><div><div>S01</div><div>BRIGHT</div><div>0~127</div><div>64</div></div></div> <div><div><div>1. Receive the broadcast and set the STANDARD mode.</div><div>2. Enter the SERVICE MENU.</div><div>3. Select S01:BRIGHT of the V/C(S) mode.</div><div>4. Set the initial setting value of the S01. BRIGHT with the FUNCTION ◀/▶ key.</div><div>5. If the brightness is not the best with the initial setting value, make fine adjustment of the S01. BRIGHT until you get the optimum brightness.</div></div></div>
SUB CONTRAST adjustment			S02:PICTURE	<div><div><div>No.</div><div>Setting item</div><div>Variable range</div><div>Initial setting value</div></div><div><div>S02</div><div>PICTURE</div><div>0~127</div><div>60</div></div></div> <div><div><div>1. Receive the broadcast and set the STANDARD mode.</div><div>2. Enter the SERVICE MENU.</div><div>3. Select S02:PICTURE of the V/C(S) mode.</div><div>4. Set the initial setting value of the S02:PICTURE with the FUNCTION ◀/▶ key.</div><div>5. If the contrast is not the best with the initial setting value, make fine adjustment of the S02:PICTURE until you get the optimum contrast.</div></div></div>
SUB COLOR adjustment	Signal generator Remote control unit		S03:COLOR	<div><div>[Method of adjustment without measuring instrument]</div><div><div><div>1. Receive the broadcast.</div><div>2. Enter the SERVICE MENU.</div><div>3. Select S03:COLOR of the V/C(S) mode.</div><div>4. Set the initial setting value of the S03:COLOR with the FUNCTION ◀/▶ key.</div><div>5. If the color is not the best with the Initial setting value, make fine adjustment of the S03:COLOR until you get the optimum color.</div></div></div></div> <div><div><div>Signal generator</div><div>Oscill oscscope</div><div>Remote control unit</div></div><div><div>TP-B</div><div>TP-E(⚡)</div><div>[CRT SOCKET PWB]</div></div><div><div>S03:COLOR</div></div></div> <div><div><div><div><div>Y</div><div>G</div><div>R</div><div>W</div><div>Cy</div><div>Mg</div><div>B</div></div><div><div>(A) (-)</div><div>0V</div><div>(+) ↑</div></div></div></div></div> <div><div><div>Models</div><div>W-B</div></div><div><div>AV-27F703/S</div><div>AV-27F713/S</div><div>AV-27F803/S</div></div><div><div>[A]Voltage</div><div>+13V</div></div></div>

Item	Measuring instrument	Test point	Adjustment part	Description								
SUB TINT adjustment	Signal generator Remote control unit		S04:TINT	<div>[Method of adjustment without measuring instrument]<div><div><div>1. Receive the broadcast.</div><div>2. Enter the SERVICE MENU.</div><div>3. Select S04:TINT of the V/C(S) mode.</div><div>4. Set the initial setting value of the S04:TINT with the FUNCTION ◀/▶ key.</div><div>5. If the tint is not the best with the initial setting value, make fine adjustment of the S04:TINT until you get the optimum tint.</div></div><table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>S04</td><td>TINT</td><td>0~127</td><td>68</td></tr></table></div></div>	No.	Setting item	Variable range	Initial setting value	S04	TINT	0~127	68
	No.	Setting item	Variable range	Initial setting value								
S04	TINT	0~127	68									
Signal generator Oscilloscope Remote control unit	TP-B TP-E(↗) [CRT SOCKET PWB]	S04:TINT	<div>[Method of adjustment using measuring instrument]<div><div><div>1. Input the full field color bar signal (75% white).</div><div>2. Enter the SERVICE MENU.</div><div>3. Set the RFAFC to OFF.</div><div>4. Select S04:TINT of the V/C(S) mode.</div><div>5. Set the initial setting value of the S04:TINT with the FUNCTION ◀/▶ key.</div><div>6. Connect the oscilloscope between TP-B and TP-E.</div><div>7. Adjust TINT and bring the value of (B) in the illustration to the voltage shown in the table below.</div><div>8. Reset the RFAFC setting position from OFF to ON.</div></div><div><table><tr><th>Models</th><th>W-Mg</th><th>[B]Voltage</th></tr><tr><td>AV-27F703/S AV-27F713/S AV-27F803/S</td><td></td><td>+26V</td></tr></table></div></div></div>	Models	W-Mg	[B]Voltage	AV-27F703/S AV-27F713/S AV-27F803/S		+26V			
Models	W-Mg	[B]Voltage										
AV-27F703/S AV-27F713/S AV-27F803/S		+26V										

ADJUSTMENT OF MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description												
MTS INPUT LEVEL Adjustment	Sophometer	AUDIO OUT R pin	A01:IN LEVEL	<div><div><div>1. Receive the cross-hatch signal (cross s-hatch / 400Hz)</div><div>2. Enter the SERVICE MENU.</div><div>3. Select the A01:IN LEVEL of the 3:SOUND(A) MODE.</div><div>4. Verify that the A01:IN LEVEL is set at its initial setting value.</div><div>5. Connect the sophometer to AUDIO OUT R pin.</div><div>6. Adjust the MTS input level to 500mV(rms) by A01:IN LEVEL with remote control unit.</div><div>7. Press the EXIT key to return to the SERVICE MENU screen.</div></div><table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>A01</td><td>IN LEVEL</td><td>0~15</td><td>010</td></tr></table></div>	No.	Setting item	Variable range	Initial setting value	A01	IN LEVEL	0~15	010				
No.	Setting item	Variable range	Initial setting value													
A01	IN LEVEL	0~15	010													
MTS SEPARATION adjustment	TV audio multiplex signal generator Oscilloscope	R OUT L OUT [AUDIO OUT]	A02:LOW SEP. A03:HI SEP.	<div><div><div>1. Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal.</div><div>2. Connect an oscilloscope to R OUT pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal.</div><div>3. Enter the SERVICE MENU.</div><div>4. Select the A02:LOW SEP. of the 3:SOUND(A) mode.</div><div>5. Set the initial setting value of the A02:LOW SEP. with the FUNCTION (◀/▶) key.</div><div>6. Adjust the A02:LOW SEP. so that the stroke element of the 300Hz signal will become minimum.</div><div>7. Change the connection of the oscilloscope to L OUT pin of the AUDIO OUT, and enlarge the voltage axis.</div><div>8. Change the signal to 3kHz, and similarly adjust the A03:HI SEP.</div><div>9. Press the EXIT key to return to the SERVICE MENU screen.</div></div><div><div><div><div>L-Channel signal waveform</div><div>R-Channel crosstalk portion</div></div><div><div><div>1 cycle</div><div>Mnimum</div></div></div></div><table><tr><th>No.</th><th>Setting item</th><th>Variable range</th><th>Initial setting value</th></tr><tr><td>A02</td><td>LOW SEP.</td><td>0~63</td><td>032</td></tr><tr><td>A03</td><td>HI SEP.</td><td>0~63</td><td>032</td></tr></table></div></div>	No.	Setting item	Variable range	Initial setting value	A02	LOW SEP.	0~63	032	A03	HI SEP.	0~63	032
No.	Setting item	Variable range	Initial setting value													
A02	LOW SEP.	0~63	032													
A03	HI SEP.	0~63	032													

HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit shown in Fig. 1.
This circuit shall be checked to operate correctly.

2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the power switch to on.
- (2) As shown in Fig. 1, set the resistor between [S1] connector [2] and [3] .
- (3) Make sure that the screen picture disappears.
- (4) Temporarily unplug the power plug.
- (5) Remove the resistor replaced [S1] connector [2] and [3] .
- (6) Again plug the power plug, make sure that the normal picture is displayed on the screen.

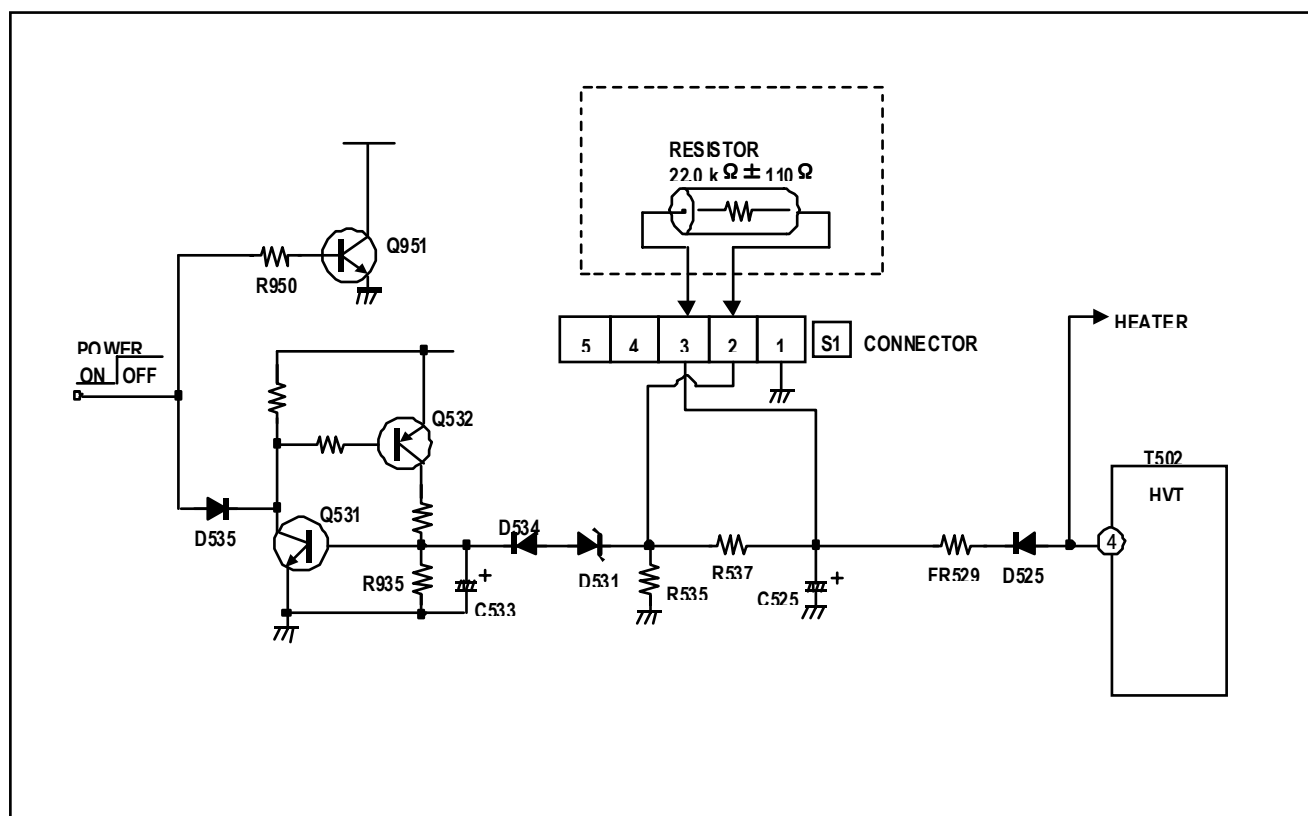


Fig. 1

REPLACEMENT OF CHIP COMPONENT

■ CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■ SOLDERING IRON

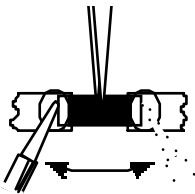
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■ REPLACEMENT STEPS

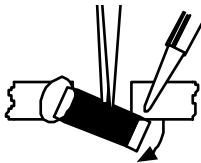
1. How to remove Chip parts

◆ Resistors, capacitors, etc

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with tweezers and remove the chip part.

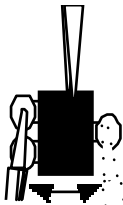


◆ Transistors, diodes, variable resistors, etc

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

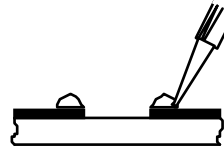


Note : After removing the part, remove remaining solder from the pattern.

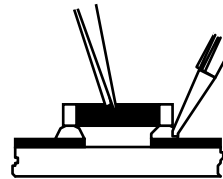
2. How to install Chip parts

◆ Resistors, capacitors, etc

- (1) Apply solder to the pattern as indicated in the figure.

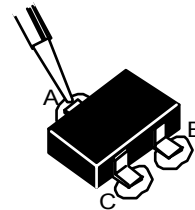


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

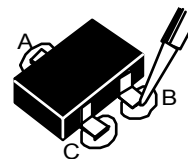


◆ Transistors, diodes, variable resistors, etc

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



PARTS LIST

CAUTION

- The parts identified by the \triangle symbol are important for the safety. Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines — in the Parts No. columns will not be supplied.
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

AV-27F703
AV-27F713
AV-27F803

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USING P.W. BOARD & REMOTE CONTROL UNIT

Model P.W.B ASS'Y	AV-27F703/S	AV-27F713/S	AV-27F803/S
MAIN PWB	SGJ-1004A-M2	SGJ-1003A-M2	SGJ-1002A-M2
CRT SOCKET PWB	SGJ-3002A-M2	←	←
PIP PWB	—	—	SGJ-4001A-M2
AV SEL PWB	SGJ-5002A-M2	←	SGJ-5001A-M2
FRONT CONTROL PWB	SGJ-6001A-M2	←	←
LED & POWER SW PWB	SGJ-7001A-M2	←	←
3D Y/C SEP MODULE PWB	—	—	SGJ0Y001A-M2
REMOTE CONTROL UNIT	RM-C326G-1A	RM-C326-1A	RM-C325G-1A

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AV-27F703
AV-27F713
AV-27F803

EXPLODED VIEW PARTS LIST(2)

[AV-27F703/s]

△ Ref.No.	Part No.	Part Name	Description
△ V01	A68QCP893X001	ITC	Inc.DY,PC MAGNET,WEDGE
△ L01	QW0090-001	DEGAUSSING COIL	
△ T502	QW0121-001	FB TRANSF	
4	A48457-4-S	SPRING	
5	WJY0016-001A	E-BRAIDED ASSY	
6	WJY0013-003A	E-BRAIDED SUB ASSY	
△ 7	LC20217-004B-A	CONTROL KNOB	
8	QAS0101-001	SPEAKER	(x2)SP01-02
△ 9	LC10883-001C-A	CHASSIS BASE	
△ 10	LC20899-004A-A	TERMINAL BOARD	
11	QYSB5B3010Z	SCREW	(x4)
△ 12	QMPD200-200-JC	POWER CORD	or QMPD390-200-JS Within MAIN PWB(CNOPW)
△ 13	LC20106-001D-A	POWER CORD CLAMP	
△ 14	LC10880-001D-A	REAR COVER	
15	QYSB5FG4016Z	SCREW	(x12)
△ 16	GQ30032-001A-A	RATING LABEL	
△ 17	GQ30034-001B-A	WARNING LABEL	

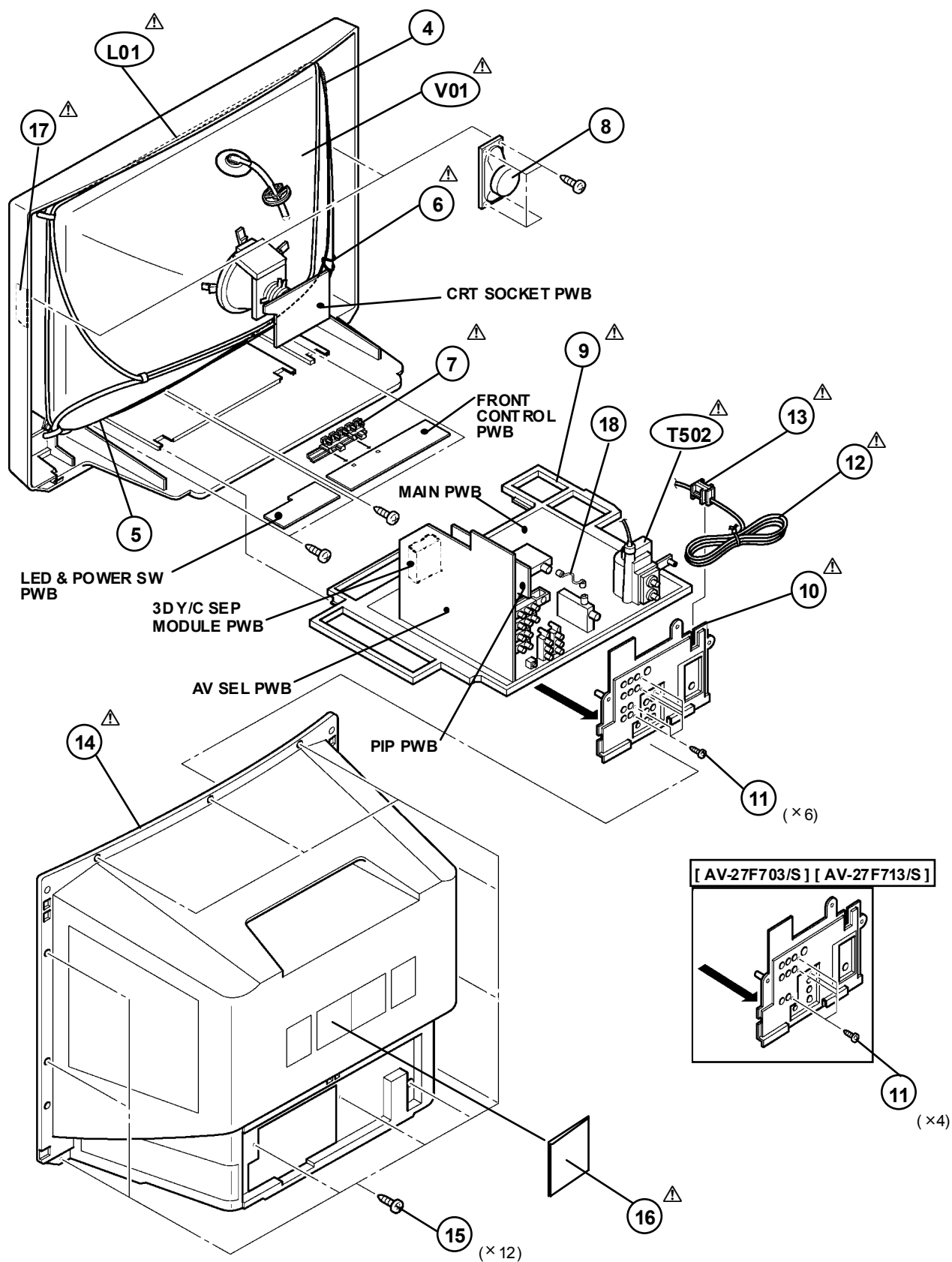
[AV-27F713/s]

△ Ref.No.	Part No.	Part Name	Description
△ V01	A68QCP893X001	ITC	Inc.DY,PC MAGNET,WEDGE
△ L01	QW0090-001	DEGAUSSING COIL	
△ T502	QW0121-001	FB TRANSF	
4	A48457-4-S	SPRING	
5	WJY0016-001A	E-BRAIDED ASSY	
6	WJY0013-003A	E-BRAIDED SUB ASSY	
△ 7	LC20217-006A-A	CONTROL KNOB	
8	QAS0101-001	SPEAKER	(x2)SP01-02
△ 9	LC10883-001C-A	CHASSIS BASE	
△ 10	LC20899-004A-A	TERMINAL BOARD	
11	QYSB5B3010Z	SCREW	(x4)
△ 12	QMPD200-200-JC	POWER CORD or	QMPD390-200-JS Within MAIN PWB(CNOPW)
△ 13	LC20106-001D-A	POWER CORD CLAMP	
△ 14	LC10880-001D-A	REAR COVER	
15	QYSB5FG4016Z	SCREW	(x12)
△ 16	GQ30032-001A-A	RATING LABEL	
△ 17	GQ30034-001B-A	WARNING LABEL	

[AV-27F803/s]

△ Ref.No.	Part No.	Part Name	Description
△ V01	A68QCP893X001	ITC	Inc.DY,PC MAGNET,WEDGE
△ L01	QW0090-001	DEGAUSSING COIL	
△ T502	QW0121-001	FB TRANSF	
4	A48457-4-S	SPRING	
5	WJY0016-001A	E-BRAIDED ASSY	
6	WJY0013-003A	E-BRAIDED SUB ASSY	
△ 7	LC20217-004B-A	CONTROL KNOB	
8	QAS0101-001	SPEAKER	(x2)SP01-02
△ 9	LC10883-001C-A	CHASSIS BASE	
△ 10	LC20899-005A-A	TERMINAL BOARD	
11	QYSB5B3010Z	SCREW	(x6)
△ 12	QMPD200-200-JC	POWER CORD	or QMPD390-200-JS Within MAIN PWB(CNOPW)
△ 13	LC20106-001D-A	POWER CORD CLAMP	
△ 14	LC10880-001D-A	REAR COVER	
15	QYSB5FG4016Z	SCREW	(x12)
△ 16	GQ30032-001A-A	RATING LABEL	
△ 17	GQ30034-001B-A	WARNING LABEL	
18	WJX0014-002A	E-COAXIAL ASSY	[AV-27F803/S ONLY]

EXPLODED VIEW (2)



AV-27F703
AV-27F713
AV-27F803

[AV-27F703/s] [AV-27F713/s] [AV-27F803/s]

PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y

(SGJ-1004A-M2)[AV-27F703/s] / (SGJ-1003A-M2)[AV-27F713/s] / (SGJ-1002A-M2)[AV-27F803/s]

Symbol No.	Part No.	Part Name	Description	Symbol No.	Part No.	Part Name	Description
△ CN0PW	QMPD200-200-JC	POWER CORD		D654	1SS133	DIODE, 803S	
OR	QMPD390-200-JS	POWER CORD		D700	MTZJ5.6B	ZENER DIODE	
△ FR525	QR29017-4R7	F R	4.7Ω 1/4W J	D701	1SS133	DIODE	
FR527	QR29011-470	F R	47Ω 1/2W J	D703	MTZJ5.6B	ZENER DIODE	
△ TU001	QAU0272-001	TUNER, 803S		D704	MTZJ5.6B	ZENER DIODE	
△ TU001	QAU0274-001	TUNER, 713S/703S		D705	1SS133	DIODE	
IC101	M52342SP	IC		D706	MTZJ5.6B	ZENER DIODE	
IC201	TM8812CSBNG3U68	IC		D707	MTZJ5.6B	ZENER DIODE	
△ IC421	LA7841	IC		D708	MTZJ5.6B	ZENER DIODE	
IC601	TA1287F	IC, 803S		D709	MTZJ5.6B	ZENER DIODE	
IC602	M52055FP	IC, 803S		D721	1SS133	DIODE, 803S	
IC621	LA4485	IC		D722	1SS133	DIODE, 803S	
IC702	AT24C08-32F80B	IC	(SERVICE)	D723	MTZJ5.6B	ZENER DIODE	
IC708	S-80840CNY-T	IC		D810	MTZJ5.6B	ZENER DIODE	
IC704	AN78L05	IC		△ D901	GSIB460-S1	BRIDGE DIODE	
IC851	BA12T	IC		D910	MA700A	SB DIODE	
OR	MPC2412AHF	IC		△ D911	RGP10J-5025-T3	DIODE	
IC852	AN7809F	IC		△ D912	RGP10J-5025-T3	DIODE	
OR	BA17809T	IC		△ D913	RGP10J-5025-T3	DIODE	
IC853	AN7805F	IC		D914	1SS133	DIODE	
OR	BA17805T	IC		D915	SARS01	DIODE	
△ IC911	STR-G6624/F8	IC		D917	MTZJ30A	ZENER DIODE	
△ IC921	SE135N	IC		D918	MTZJ5.1C	ZENER DIODE	
Q001	UN2212	DIGI TRANSISTOR		D920	1SS133	DIODE	
Q101	2SC5083/L-P/-T	TRANSISTOR		D931	RU30A-F1	DIODE	
Q131	2SB709A/QR/-X	TRANSISTOR		D933	RU3YK-LFC4	DIODE	
Q161	2SD601A/QR/-X	TRANSISTOR		D935	RU3YK-LFC4	DIODE	
Q211	2SD601A/QR/-X	TRANSISTOR		D941	MTZJ33A	ZENER DIODE	
Q232	2SD601A/QR/-X	TRANSISTOR		D945	MTZJ9.1B	ZENER DIODE	
Q233	2SD601A/QR/-X	TRANSISTOR		D952	1SS133	DIODE	
Q352	2SD601A/QR/-X	TRANSISTOR		D953	1SS133	DIODE	
Q353	2SD601A/QR/-X	TRANSISTOR		D954	1SR35-400A-T2	DIODE	
Q431	UN2212	DIGI TRANSISTOR		D955	1SR35-400A-T2	DIODE	
△ Q501	2SC4212/Z1/	TRANSISTOR		D956	1SR35-400A-T2	DIODE	
Q511	2SD2645-YD	POWER TRANSISTO	H. OUT	D957	1SR35-400A-T2	DIODE	
Q531	2SC2785/JH/-T	SI TRANSISTOR		D972	MTZJ15C	ZENER DIODE	
Q532	2SB709A/QR/-X	TRANSISTOR		D973	1SS133	DIODE	
Q541	2SB709A/QR/-X	TRANSISTOR		R002	NRS463J-0R0X	MG R	0.0Ω 1/16W J
Q542	2SB709A/QR/-X	TRANSISTOR		R003	NRS463J-101X	MG R	10Ω 1/16W J
Q543	2SD1408/OY/-LB	POW TRANSISTOR		R004	NRS463J-101X	MG R	10Ω 1/16W J
Q622	2SD601A/QR/-X	TRANSISTOR		R005	NRS463J-0R0X	MG R	0.0Ω 1/16W J
Q623	UN2212	DIGI TRANSISTOR		R008	NRS463J-820X	MG R	82Ω 1/16W J
Q700	2SD601A/QR/-X	TRANSISTOR, 803S		R009	NRS463J-682X	MG R	6.8kΩ 1/16W J
Q701	2SB709A/QR/-X	TRANSISTOR		R101	NRS463J-562X	MG R	5.6kΩ 1/16W J
Q705	2SD601A/QR/-X	TRANSISTOR, 803S		R102	NRS463J-182X	MG R	1.8kΩ 1/16W J
Q951	2SD1383K/AB/-X	TRANSISTOR		R103	QRE121J-101Y	C R	10Ω 1/2W J
Q971	2SA1208/ST/Z1-T	TRANSISTOR		R104	NRS463J-180X	MG R	18Ω 1/16W J
D305	1SS133	DIODE		R105	NRS463J-270X	MG R	27Ω 1/16W J
D306	1SS133	DIODE		R111	NRS463J-394X	MG R	390kΩ 1/16W J
D307	1SS133	DIODE		R112	NRS463J-334X	MG R	330kΩ 1/16W J
D308	1SS133	DIODE		R113	NRS463J-101X	MG R	10Ω 1/16W J
D309	1SS133	DIODE		R115	NRS463J-101X	MG R	10Ω 1/16W J
D310	1SS133	DIODE		R116	NRS463J-680X	MG R	68Ω 1/16W J
D352	MTZJ9.1C	ZENER DIODE		R117	NRS463J-273X	MG R	27kΩ 1/16W J
D353	1SS133	DIODE		R118	NRS463J-223X	MG R	22kΩ 1/16W J
D354	MTZJ3.3A	ZENER DIODE		R131	NRS463J-102X	MG R	1kΩ 1/16W J
D421	1N4003	DIODE		R132	NRS463J-331X	MG R	33Ω 1/16W J
D422	MTZJ75	ZENER DIODE		R133	NRS463J-821X	MG R	82Ω 1/16W J
D432	1SS133	DIODE		R134	NRS463J-561X	MG R	56Ω 1/16W J
D501	RH3G-F1	DIODE		R135	NRS463J-102X	MG R	1kΩ 1/16W J
△ D502	RU3AM-LFC4	DIODE		R161	NRS463J-332X	MG R	3.3kΩ 1/16W J
D507	RGP10J-5025-T3	DIODE		R162	NRS463J-0R0X	MG R	0.0Ω 1/16W J
D521	RH1S-T3	DIODE		R163	NRS463J-223X	MG R	22kΩ 1/16W J
D523	RGP10J-5025-T3	DIODE		R164	NRS463J-102X	MG R	1kΩ 1/16W J
D525	1SS81-T5	DIODE		R165	NRS463J-223X	MG R	22kΩ 1/16W J
D526	1SS81-T5	DIODE		R166	NRS463J-103X	MG R	10kΩ 1/16W J
D527	1SR124-400A-T2	DIODE		R167	NRS463J-102X	MG R	1kΩ 1/16W J
D529	MTZJ9.1C	ZENER DIODE		R168	NRS463J-101X	MG R	10Ω 1/16W J
△ D531	MA4068N/Z1/-T2	ZENER DIODE		R169	NRS463J-561X	MG R	56Ω 1/16W J
D534	QUY153-050Y	IM BUS WIRE		R171	NRS463J-103X	MG R	10kΩ 1/16W J
D535	1SS133	DIODE		R201	NRS463J-223X	MG R	22kΩ 1/16W J
D537	1SR35-400A-T2	DIODE		R212	NRS463J-272X	MG R	2.7kΩ 1/16W J
D601	MTZJ9.1C	ZENER DIODE		R215	NRS463J-562X	MG R	5.6kΩ 1/16W J
D602	MTZJ9.1C	ZENER DIODE		R216	NRS463J-562X	MG R	5.6kΩ 1/16W J
D603	MTZJ9.1C	ZENER DIODE		R217	NRS463J-102X	MG R	1kΩ 1/16W J
D604	MTZJ9.1C	ZENER DIODE, 803S					
D605	MTZJ9.1C	ZENER DIODE, 803S					
D606	MTZJ9.1C	ZENER DIODE, 803S					
D653	1SS133	DIODE, 803S					

△ Symbol No.	Part No.	Part Name	Description
R222	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R227	NRS63J-104X	MG R	100kΩ 1/16W J
R231	NRS63J-182X	MG R	1.8kΩ 1/16W J
R237	NRS63J-392X	MG R	3.9kΩ 1/16W J
R238	NRS63J-473X	MG R	47kΩ 1/16W J
R241	NRS63J-332X	MG R	3.3kΩ 1/16W J
R243	NRS63J-152X	MG R	1.5kΩ 1/16W J
R281	NRS63J-182X	MG R	1.8kΩ 1/16W J
R282	NRS63J-392X	MG R	3.9kΩ 1/16W J
R283	NRS63J-681X	MG R	680Ω 1/16W J
R286	NRS63J-472X	MG R	4.7kΩ 1/16W J
R287	NRS63J-101X	MG R	100Ω 1/16W J
R288	NRS63J-471X	MG R	470Ω 1/10W J
R289	NRS63J-154X	MG R	150kΩ 1/16W J
R290	NRS63J-561X	MG R	560Ω 1/10W J
R292	NRS63J-124X	MG R	120kΩ 1/16W J
R293	NRS63J-224X	MG R	220kΩ 1/16W J
R301	NRS63J-222X	MG R	2.2kΩ 1/16W J
R302	NRS63J-222X	MG R	2.2kΩ 1/16W J
R303	NRS63J-222X	MG R	2.2kΩ 1/16W J
R304	NRS63J-101X	MG R	100Ω 1/16W J
R305	NRS63J-101X	MG R	100Ω 1/16W J
R306	NRS63J-101X	MG R	100Ω 1/16W J
R318	NRS63J-472X	MG R	4.7kΩ 1/16W J
R319	NRS63J-102X	MG R	1kΩ 1/16W J
R352	QRE141J-103Y	C R	10kΩ 1/4W J
OR	NRS63J-103X	MG R	10kΩ 1/16W J
R354	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R355	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R356	NRS63J-123X	MG R	12kΩ 1/16W J
R357	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R358	NRS63J-333X	MG R	33kΩ 1/16W J
R359	NRS63J-103X	MG R	10kΩ 1/16W J
R360	NCB31HK-103X	C CAP.	0.01μF 50V K
R361	QRE141J-0R0Y	C R	0.0Ω 1/4W J
R421	NRS63J-822X	MG R	8.2kΩ 1/16W J
R423	NRS63J-393X	MG R	39kΩ 1/16W J
R424	NRS63J-393X	MG R	39kΩ 1/16W J
R426	NRS63J-183X	MG R	18kΩ 1/16W J
R427	QRT029J-1R2	MF R	1.2Ω 2W J
R429	NRS63J-272X	MG R	2.7kΩ 1/16W J
R430	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R431	NRS63J-152X	MG R	1.5kΩ 1/16W J
R432	NRS63J-101X	MG R	100Ω 1/16W J
R433	NRS63J-681X	MG R	680Ω 1/16W J
R434	QRL029J-1R1	OM R	180Ω 2W J
R435	QRE121J-102Y	C R	1kΩ 1/2W J
R441	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R447	NRS63J-104X	MG R	100kΩ 1/16W J
R448	NRS63J-473X	MG R	47kΩ 1/16W J
R449	NRS63J-822X	MG R	8.2kΩ 1/16W J
R453	QRE121J-102Y	C R	1kΩ 1/2W J
R501	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R502	NRS63J-271X	MG R	270Ω 1/16W J
R503	QRE121J-103Y	C R	10kΩ 1/2W J
R504	QRL089J-152	OM R	1.5kΩ 3W J
R505	QRL089J-182	OM R	1.8kΩ 3W J
R511	QRE121J-220Y	C R	22Ω 1/2W J
R512	QRE121J-681Y	C R	680Ω 1/2W J
R513	QRL089J-273	OM R	27kΩ 3W J
R523	QRE141J-563Y	C R	56kΩ 1/4W J
R526	QRE121J-272Y	C R	2.7kΩ 1/2W J
R527	QRE121J-124Y	C R	120kΩ 1/2W J
R528	QRE121J-154Y	C R	150kΩ 1/2W J
R529	NRS63J-331X	MG R	330Ω 1/16W J
R531	QRJ146J-391X	C R	390Ω 1/4W J
R532	NRS63J-273X	MG R	27kΩ 1/16W J
R533	NRS63J-123X	MG R	12kΩ 1/16W J
R534	NRS63J-123X	MG R	12kΩ 1/16W J
△ R535	NRV020J-222X	MF R	2.2kΩ 1/10W D
△ R537	NRZ0032-7151X	MF R	7.15kΩ 1/10W±0.5%
R538	NRS63J-333X	MG R	33kΩ 1/16W J
R543	QRE121J-122Y	C R	1.2kΩ 1/2W J
R544	QRE121J-392Y	C R	3.9kΩ 1/2W J
R545	QRE121J-822Y	C R	8.2kΩ 1/2W J
R546	NRS63J-331X	MG R	330Ω 1/16W J
R547	NRS63J-104X	MG R	100kΩ 1/16W J
R548	QRE121J-152Y	C R	1.5kΩ 1/2W J
R553	QRL089J-390	OM R	39Ω 3W J

△ Symbol No.	Part No.	Part Name	Description
△ R554	QRK126J-150X	C R	15Ω 1/2W J
R555	QRX029J-3R3	MF R	3.3Ω 2W J
R601	NRS63J-750X	MG R	75Ω 1/16W J
R602	NRS63J-750X	MG R	75Ω 1/16W J
R603	NRS63J-750X	MG R	75Ω 1/16W J
R604	NRS63J-750X	MG R	75Ω 1/16W J, 803S
R605	NRS63J-750X	MG R	75Ω 1/16W J, 803S
R606	NRS63J-750X	MG R	75Ω 1/16W J, 803S
R610	NRS63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
R611	NRS63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
R614	NRS63J-682X	MG R	6.8kΩ 1/16W J, 803S
R615	NRS63J-332X	MG R	3.3kΩ 1/16W J, 803S
R616	NRS63J-332X	MG R	3.3kΩ 1/16W J, 803S
R617	NRS63J-332X	MG R	3.3kΩ 1/16W J, 803S
R618	NRS63J-332X	MG R	3.3kΩ 1/16W J, 803S
R621	NRS63J-682X	MG R	6.8kΩ 1/16W J
R622	NRS63J-681X	MG R	680Ω 1/16W J
R623	NRS63J-682X	MG R	6.8kΩ 1/16W J
R624	NRS63J-681X	MG R	680Ω 1/16W J
R626	NRS63J-223X	MG R	22kΩ 1/16W J
R627	NRS63J-223X	MG R	22kΩ 1/16W J
R631	NRS63J-333X	MG R	33kΩ 1/16W J
R632	NRS63J-223X	MG R	22kΩ 1/16W J
R638	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R639	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R651	NRS63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
R652	NRS63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
R653	NRS63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
R655	NRS63J-153X	MG R	15kΩ 1/16W J, 803S
R700	NRS63J-102X	MG R	1kΩ 1/16W J
R701	NRS63J-103X	MG R	10kΩ 1/16W J
R702	NRS63J-102X	MG R	1kΩ 1/16W J
R704	NRS63J-472X	MG R	4.7kΩ 1/16W J
R705	NRS63J-472X	MG R	4.7kΩ 1/16W J
R706	NRS63J-472X	MG R	4.7kΩ 1/16W J
R707	NRS63J-103X	MG R	10kΩ 1/16W J
R708	NRS63J-101X	MG R	100Ω 1/16W J
R709	NRS63J-101X	MG R	100Ω 1/16W J
R714	NRS63J-823X	MG R	82kΩ 1/16W J, 803S
R715	NRS63J-103X	MG R	10kΩ 1/16W J
R718	NRS63J-223X	MG R	22kΩ 1/16W J
R721	NRS63J-102X	MG R	1kΩ 1/16W J
R728	NRS63J-102X	MG R	1kΩ 1/16W J
R729	NRS63J-223X	MG R	22kΩ 1/16W J
R731	NRS63J-101X	MG R	100Ω 1/16W J
R732	NRS63J-101X	MG R	100Ω 1/16W J
R733	NRS63J-472X	MG R	4.7kΩ 1/16W J
R734	NRS63J-472X	MG R	4.7kΩ 1/16W J
R737	NRS63J-472X	MG R	4.7kΩ 1/16W J, 803S
R739	NRS63J-0R0X	MG R	0.0Ω 1/16W J
R740	NRS63J-103X	MG R	10kΩ 1/16W J
R754	NRS63J-472X	MG R	4.7kΩ 1/16W J, 803S
R755	NRS63J-153X	MG R	15kΩ 1/16W J, 803S
R756	NRS63J-103X	MG R	10kΩ 1/16W J, 803S
R764	NRS63J-221X	MG R	22Ω 1/16W J
R765	NRS63J-221X	MG R	22Ω 1/16W J
R766	NRS63J-221X	MG R	22Ω 1/16W J
R767	NRS63J-221X	MG R	22Ω 1/16W J
R769	NRS63J-682X	MG R	6.8kΩ 1/16W J
R772	NRS63J-103X	MG R	10kΩ 1/16W J
R775	NRS63J-473X	MG R	47kΩ 1/16W J, 803S
R776	NRS63J-103X	MG R	10kΩ 1/16W J, 803S
R811	NRS63J-473X	MG R	47kΩ 1/16W J
R812	NRS63J-102X	MG R	1kΩ 1/16W J
R816	NRS63J-124X	MG R	120kΩ 1/16W J
R821	NRS63J-184X	MG R	180kΩ 1/16W J
R822	NRS63J-0R0X	MG R	0.0Ω 1/16W J, 713S/703S
R822	NRS63J-124X	MG R	120kΩ 1/16W J, 803S
R827	NRS63J-102X	MG R	1kΩ 1/16W J
R855	QRX039J-6R8	MF R	6.8Ω 3W J
R857	QRL029J-820	OM R	82Ω 2W J
R858	QRL029J-390	OM R	39Ω 2W J, 803S
△ R901	QRG074K-R47	UNF R	0.47Ω 7W K
△ R909	QRG01GJ-470	OM R	47Ω 2W J
R911	QRE121J-223Y	C R	22kΩ 1/2W J
R912	QRT029J-R18	MF R	0.18Ω 2W J
R913	QRT029J-R15	MF R	0.15Ω 2W J
△ R914	QRK126J-681X	C R	680Ω 1/2W J

AV-27F703
AV-27F713
AV-27F803

△ Symbol No.	Part No.	Part Name	Description
R915	QRK129J-6R8	C R	6.8Ω 1/2W J
△ R917	QRK126J-332X	C R	3.3kΩ 1/2W J
R918	QRE121J-222Y	C R	2.2kΩ 1/2W J
R919	QRE121J-684Y	C R	680kΩ 1/2W J
R924	QRE121J-222Y	C R	2.2kΩ 1/2W J
R930	QRE121J-223Y	C R	22kΩ 1/2W J
R939	QRT039J-2R2	MF R	2.2Ω 3W J
R940	QRE121J-181Y	C R	180Ω 1/2W J
R941	QRL029J-183	OM R	18kΩ 2W J
R950	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R951	NRS463J-473X	MG R	47kΩ 1/16W J
R952	NRS463J-102X	MG R	1kΩ 1/16W J
R953	QRE121J-820Y	C R	82Ω 1/2W J
R954	QUY160-100Y	IM BUS WIRE	
R973	QRE121J-272Y	C R	2.7kΩ 1/2W J
R975	QRE121J-223Y	C R	22kΩ 1/2W J
R977	QRE121J-473Y	C R	47kΩ 1/2W J
R978	NRS463J-333X	MG R	33kΩ 1/16W J
R979	QRT029J-1R2	MF R	1.2Ω 2W J
R980	QRT029J-1R2	MF R	1.2Ω 2W J
△ R998	QRZ904J-275	C R	2.7MΩ 1/2W K
R999	QRE121J-121Y	C R	120Ω 1/2W J
C001	QETN1HM-475	E CAP.	4.7μF 50V M
C003	QETN1HM-106	E CAP.	10μF 50V M
C004	QETN1CM-108	E CAP.	1000μF 16V M
C006	QETN1EM-476	E CAP.	47μF 25V M
C101	NCB31HK-103X	C CAP.	0.01μF 50V K
C102	NCB31HK-103X	C CAP.	0.01μF 50V K
C104	NCB31HK-103X	C CAP.	0.01μF 50V K
C105	NCB31HK-103X	C CAP.	0.01μF 50V K
C106	QETN1EM-476	E CAP.	47μF 25V M
C107	NCB31HK-103X	C CAP.	0.01μF 50V K
C113	NCB31HK-103X	C CAP.	0.01μF 50V K
C114	NCB31HK-103X	C CAP.	0.01μF 50V K
C116	QFVFLHJ-224Z	MF CAP.	0.22μF 50V J
C117	QETN1EM-476	E CAP.	47μF 25V M
C118	NCB31HK-103X	C CAP.	0.01μF 50V K
C119	NDC31HJ-681X	C CAP.	680Ω 50V J
C120	QETN1HM-474	E CAP.	0.47μF 50V M
C124	NCB31HK-103X	C CAP.	0.01μF 50V K
C131	NCB31HK-103X	C CAP.	0.01μF 50V K
C161	QETN1HM-106	E CAP.	10μF 50V M
C163	NDC31HJ-470X	C CAP.	47pF 50V J
C164	NDC31HJ-470X	C CAP.	47pF 50V J
C165	NCB31HK-103X	C CAP.	0.01μF 50V K
C166	NCB31HK-103X	C CAP.	0.01μF 50V K
C202	QETN1HM-105	E CAP.	1μF 50V M
C203	NCB31HK-152X	C CAP.	1500pF 50V K
C211	QENCLCM-106	E CAP.	10μF 16V M
C212	NDC31HJ-100X	C CAP.	10pF 50V J
C221	QETN1HM-106	E CAP.	10μF 50V M
C222	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C223	NCB31HK-103X	C CAP.	0.01μF 50V K
C233	NDC31HJ-680X	C CAP.	68pF 50V J
C237	NCB31HK-103X	C CAP.	0.01μF 50V K
C241	NCB31HK-103X	C CAP.	0.01μF 50V K
C242	QETN1HM-225	E CAP.	2.2μF 50V M
C243	QETN1CM-107	E CAP.	100μF 16V M
C244	NCB31HK-103X	C CAP.	0.01μF 50V K
C281	QFVFLHJ-474Z	MF CAP.	0.47μF 50V J
C282	QETN1CM-107	E CAP.	100μF 16V M
C283	NCB31HK-103X	C CAP.	0.01μF 50V K
C284	QETN1HM-225	E CAP.	2.2μF 50V M
C285	NCB31HK-103X	C CAP.	0.01μF 50V K
C286	QETN1HM-106	E CAP.	10μF 50V M
C287	QETN1CM-107	E CAP.	100μF 16V M
C288	NCB31HK-103X	C CAP.	0.01μF 50V K
C302	NCB31EK-104X	C CAP.	0.1μF 25V K
C352	QETN1CM-476	E CAP.	47μF 16V M
C354	NCB31HK-103X	C CAP.	0.01μF 50V K
C391	QETN1CM-107	E CAP.	100μF 16V M
C392	NCB31HK-103X	C CAP.	0.01μF 50V K
C422	QFN32AK-102	M CAP.	1000pF 100V K
C424	QETN1VM-107	E CAP.	100μF 35V M
C425	QETN1VM-477	E CAP.	470μF 35V M
C427	QETN1HM-225	E CAP.	2.2μF 50V M
C428	QETN1EM-228	E CAP.	2200μF 25V M
C431	QFLC2AK-563Z	M CAP.	0.056μF 100V K
C432	QETN1EM-476	E CAP.	47μF 25V M
C433	QETN1EM-476	E CAP.	47μF 25V M

△ Symbol No.	Part No.	Part Name	Description
C435	NCB21HK-183X	C CAP.	0.018μF 50V K
C440	QCS32HJ-100	C CAP.	10pF 500V J
C501	QCB32HK-151	C CAP.	150pF 500V K
C502	QCB32HK-331	C CAP.	330pF 500V K
C503	QEHRCM-105	E CAP.	1μF 160V M
C504	QEZ0203-107	E CAP.	100μF 160V M
C505	QENC2AM-225	E CAP.	2.2μF 100V M
C507	QEM6LHK-475	E CAP.	4.7μF 50V K
C508	QEM6LHK-475	E CAP.	4.7μF 50V K
△ C510	QFZ0196-582	MPP CAP.	5800pF 1.5kVH±3%
△ C513	QFZ0196-113	MPP CAP.	0.011μF 1.5kVH±3%
△ C514	QFP32GJ-183	PP CAP.	0.018μF 400V J
△ C515	QFZ0199-404	MPP CAP.	0.4μF 250V J
△ OR	QFZ0197-404	MPP CAP.	0.4μF 250V J
C516	QCB32HK-561	C CAP.	560pF 500V K
C521	QETN2EM-106	E CAP.	10μF 250V M
C523	QEHRLVM-108	E CAP.	1000μF 35V M
C525	QETN1VM-107	E CAP.	100μF 35V M
C526	QFV21HJ-824	MF CAP.	0.82μF 50V J
C527	QFLC2AJ-103Z	M CAP.	0.01μF 100V J
C533	QETN1HM-106	E CAP.	10μF 50V M
C601	QETN1EM-476	E CAP.	47μF 25V M
C602	QETN1EM-476	E CAP.	47μF 25V M
C603	QETN1EM-476	E CAP.	47μF 25V M
C604	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
C605	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
C606	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
C607	QETN1AM-477	E CAP.	470μF 10V M, 803S
C608	NCB31HK-103X	C CAP.	0.01μF 50V K, 803S
C609	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C610	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C611	QFVFLHJ-104Z	MF CAP.	0.1μF 50V J
C612	QETN1EM-476	E CAP.	47μF 25V M, 803S
C613	QETN1EM-476	E CAP.	47μF 25V M, 803S
C614	QETN1EM-476	E CAP.	47μF 25V M, 803S
C615	QETN1AM-477	E CAP.	470μF 10V M, 803S
C616	NCB31HK-103X	C CAP.	0.01μF 50V K, 803S
C621	NCB31HK-102X	C CAP.	1000pF 50V K
C622	NCF21CZ-105X	C CAP.	1μF 16V Z
C623	NCB31HK-102X	C CAP.	1000pF 50V K
C624	NCF21CZ-105X	C CAP.	1μF 16V Z
C625	QETN1CM-107	E CAP.	100μF 16V M
C626	QETN1EM-108	E CAP.	1000μF 25V M
C627	QETN1HM-474	E CAP.	0.47μF 50V M
C628	QETN1EM-108	E CAP.	1000μF 25V M
C629	QETN1EM-108	E CAP.	1000μF 25V M
C636	QETN1HM-105	E CAP.	1μF 50V M
C637	QETN1HM-105	E CAP.	1μF 50V M
C652	NCB31EK-104X	C CAP.	0.1μF 25V K
C653	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
C654	NCB31EK-104X	C CAP.	0.1μF 25V K, 803S
C655	NCB31HK-103X	C CAP.	0.01μF 50V K, 803S
C656	NDC31HJ-150X	C CAP.	15pF 50V J, 803S
C657	NDC31HJ-150X	C CAP.	15pF 50V J, 803S
C658	NDC31HJ-150X	C CAP.	15pF 50V J, 803S
C700	NCB31HK-102X	C CAP.	1000pF 50V K
C701	QETN1HM-106	E CAP.	10μF 50V M
C702	QETN1HM-106	E CAP.	10μF 50V M
C703	QETN1HM-106	E CAP.	10μF 50V M
C704	QETN1CM-107	E CAP.	100μF 16V M
C705	NCB31HK-103X	C CAP.	0.01μF 50V K
C706	QETN1HM-105	E CAP.	1μF 50V M
C708	NDC31HJ-220X	C CAP.	22pF 50V J
C709	NDC31HJ-220X	C CAP.	22pF 50V J
C711	QETN1CM-107	E CAP.	100μF 16V M
C712	NCB31HK-103X	C CAP.	0.01μF 50V K
C716	QETN1HM-106	E CAP.	10μF 50V M
C721	NCB31HK-103X	C CAP.	0.01μF 50V K, 803S
C726	NDC31HJ-561X	C CAP.	560pF 50V J, 803S
C728	NCB31HK-103X	C CAP.	0.01μF 50V K
C807	QETN1AM-477	E CAP.	470μF 10V M
C813	NCB31HK-102X	C CAP.	1000pF 50V K
C815	NCB31HK-103X	C CAP.	0.01μF 50V K
C851	QETN1EM-107	E CAP.	100μF 25V M
C852	QETN1CM-107	E CAP.	100μF 16V M
C853	QETN1CM-227	E CAP.	220μF 16V M
C854	QETN1CM-227	E CAP.	220μF 16V M
C856	QEHRLCM-227	E CAP.	220μF 16V M
C857	QETN1CM-477	E CAP.	470μF 16V M
△ C901	QFZ9075-104	MPP CAP.	0.1μFAC275V M

△ Symbol No.	Part No.	Part Name	Description
△ OR	QFZ9072-104	MF CAP.	0.1μFAC275V K
△ C902	QFZ9072-473	MF CAP.	0.047μFAC275V K
△ OR	QFZ9075-473	MPP CAP.	0.047μFAC275V M
△ C903	QFZ9075-104	MPP CAP.	0.1μFAC275V M
△ OR	QFZ9072-104	MF CAP.	0.1μFAC275V K
△ C904	QCZ9054-102	C CAP.	1000pFAC250V Z
△ C905	QCZ9054-102	C CAP.	1000pFAC250V Z
△ C906	QCZ9054-102	C CAP.	1000pFAC250V Z
△ C907	QEZO169-477	E CAP.	470μF 200V M
△ C908	QCZ9054-102	C CAP.	1000pFAC250V Z
△ OR	QCZ9079-102	C CAP.	1000pFAC250V M
△ C912	QCZ0340-222	C CAP.	2200pF 2Kv K
△ C913	QFLCHJ-471Z	M CAP.	470μF 50V J
△ C914	QETNLM-107	E CAP.	100μF 50V M
△ C916	NDC31HJ-331X	C CAP.	330μF 50V J
△ C917	NCB31HK-182X	C CAP.	1800pF 50V K
△ C918	NCB21HK-104X	C CAP.	0.1μF 50V K
△ C919	QFP32GJ-103	PP CAP.	0.01μF 400V J
△ C931	QEZO03-227	E CAP.	220μF 160V M
△ C933	QETNLCM-108	E CAP.	1000μF 16V M
△ C934	NDC31HJ-151X	C CAP.	150μF 50V J
△ C935	QETNLEM-108	E CAP.	1000μF 25V M
△ C937	QCZ0340-102	C CAP.	1000pF 2Kv K
△ C938	QETNLEM-228	E CAP.	2200μF 25V M
△ C939	QCB32HK-152	C CAP.	1500pF 500V K
△ C941	QCB32HK-102	C CAP.	1000pF 500V K
△ C942	QEHRLHM-105	E CAP.	1μF 50V M
△ C951	QETNLEM-477	E CAP.	470μF 25V M
△ C952	QETNLCM-227	E CAP.	220μF 16V M
△ C971	QETNLCM-107	E CAP.	100μF 16V M
△ C972	QETNLEM-476	E CAP.	47μF 25V M
△ C973	QETNLM-106	E CAP.	10μF 50V M
△ C997	QCZ9052-102	C CAP.	1000pFAC125V M
△ OR	QCZ9079-102	C CAP.	1000pFAC250V M
△ C998	QCZ9074-103	C CAP.	0.01μFAC250V M
△ C999	QCZ9074-103	C CAP.	0.01μFAC250V M
△ L001	QQL244K-560Z	COIL	56μH K
△ L101	QQL2014-R22	COIL	
△ L113	QQL244K-487Z	COIL	4.7μH K
△ L131	QQL244K-150Z	COIL	15μH K
△ L161	QQL244K-220Z	COIL	22μH K
△ L232	QQL244K-560Z	COIL	56μH K
△ L241	QQL244K-220Z	COIL	22μH K
△ L391	QQL244K-220Z	COIL	22μH K
△ L511	QQR1165-001	LINEARITY COIL	
△ L512	QQL2027-821	COIL	
△ OR	QQL2036-821	COIL	
△ L521	QQR1333-001	COIL	
△ L701	QQL244K-220Z	COIL	22μH K
△ L702	QQL244K-220Z	COIL	22μH K
△ L703	QQL244K-220Z	COIL	22μH K
△ L704	QQL244K-220Z	COIL	22μH K
△ L705	QQL244K-220Z	COIL	22μH K
△ L931	QQL26AK-470Z	COIL	47μH K
△ L933	QQL26AK-470Z	COIL	47μH K
△ L940	QQR0582-001Z	FERRITE BEADS	
△ CF001	QAX0349-001	C TRAP	
△ CF131	QAX0639-001Z	C TRAP	
△ CF161	QAX0642-001Z	CERAMIC FILTER	
△ LC601	QQR1199-001	N FILTER	
△ LC602	QQR1199-001	N FILTER	
△ LC603	QQR1199-001	N FILTER	
△ LC604	QQR1199-001	N FILTER, 803S	
△ LC605	QQR1199-001	N FILTER, 803S	
△ LC606	QQR1199-001	N FILTER, 803S	
△ X701	QAX0717-001Z	CRYSTAL RESONATOR	
△ S421	QSL4A13-C02	LEVER SWITCH	V. CENTER
△ K401	QQR0621-002Z	FERRITE BEADS	
△ K912	QQR0582-001Z	FERRITE BEADS	
△ K914	QUY153-050Y	IM BUS WIRE	
△ K916	QQR0582-001Z	FERRITE BEADS	
△ K917	QQR0582-001Z	FERRITE BEADS	
△ K918	QQR0582-001Z	FERRITE BEADS	
△ K920	QQR0872-002	FERRITE BEADS	
△ K931	QQR0582-001Z	FERRITE BEADS	
△ K932	QQR0582-001Z	FERRITE BEADS	
△ K933	QQR0621-002Z	FERRITE BEADS	
△ K935	QQR0582-001Z	FERRITE BEADS	
△ PC921	TLP421F/D4-GR	IC (PHOTO COUPLE	
△ RY951	QSK0085-001	RELAY	
△ OR	QSK0086-001	RELAY	
△ OR	QSK0130-001	RELAY	
△ TH901	QAD0132-3R0	P THERMISTOR	

△ Symbol No.	Part No.	Part Name	Description
T111	QQR0907-001	IF TRANSFORMER	
T501	CE42034-002	HOR DRIVE TRANS	
△ T502	QQH0121-001	FB TRANSF	
△ T921	QOS0138-001	SW TRANSF	
△ T951	QQT0372-001	POWER TRANSF	
△ OR	QQT0355-001	POWER TRANSF	
△ FC901	CEM002-001Z	FUSE CLIP	
△ FC902	CEM002-001Z	FUSE CLIP	
△ J601	QNN0349-002	PIN JACK	
△ J602	QNN0349-002	PIN JACK, 803S	
△ J810	QNS0001-001	JACK	
△ LF901	QQR1159-001	LINE FILTER	
△ LF902	QQR0527-004	LINE FILTER	
△ VA901	ERZV10V621CS	ZNR	
△ CP932	ICP-N70-T	CIRCUIT PROTECTOR	
△ CP936	ICP-N70-T	CIRCUIT PROTECTOR	
△ F901	QMF51U1-5R0-J8	FUSE	5.0A
△ F905	QMF2049-5R0Z-E	FUSE	5.0A
△ CNO01	QGB1505J1-35	B TO B CONNE	
△ CNO02	QGB1505J1-25	B TO B CONNE, 803S	
△ CNO03	QGB1505J1-15	B TO B CONNE, 803S	
△ CNO04	QGA2501C5-07Z	W TO B CONNE	
△ CNO05	QGA2501C5-06Z	W TO B CONNE	
△ CNO07	QGA2501C5-06Z	W TO B CONNE	

CRT SOCKET P.W. BOARD ASS'Y

(SGJ-3002A-M2)

△ Symbol No.	Part No.	Part Name	Description
Q3103	2SA933AS/QR/-T	TRANSISTOR	
Q3105	2SC1740S/QR/-T	TRANSISTOR	
Q3106	2SA933AS/QR/-T	TRANSISTOR	
Q3107	2SA1964/DE/-	POW TRANSISTOR	
Q3108	2SC5248/DE/-	POW TRANSISTOR	
Q3109	2SC1740S/QR/-T	TRANSISTOR	
Q3151	2SC1740S/QR/-T	TRANSISTOR	
Q3152	2SA933AS/QR/-T	TRANSISTOR	
Q3301	2SC5083/L-P/-T	TRANSISTOR	
Q3302	2SC5083/L-P/-T	TRANSISTOR	
Q3303	2SC5083/L-P/-T	TRANSISTOR	
Q3304	2SC5147/CDE/F43	POW TRANSISTOR	
Q3305	2SC5147/CDE/F43	POW TRANSISTOR	
Q3306	2SC5147/CDE/F43	POW TRANSISTOR	
Q3351	2SA933AS/QR/-T	TRANSISTOR	
D3101	1SS133	DIODE	
D3105	RH1S-T3	DIODE	
D3106	RH1S-T3	DIODE	
D3301	1SS133	DIODE	
D3302	1SS133	DIODE	
D3303	1SS133	DIODE	
D3304	1SS82	DIODE	
D3305	1SS82	DIODE	
D3306	1SS82	DIODE	
D3311	MTZJ3.6B	ZENER DIODE	
D3312	1SS133	DIODE	
D3313	MTZJ4.3A	ZENER DIODE	
D3314	1SS133	DIODE	
D3331	1SS133	DIODE	
D3351	1SS133	DIODE	
D3352	1SS133	DIODE	
D3353	1SS133	DIODE	
D3354	1SS133	DIODE	
D3361	QUY160-150Y	IM BUS WIRE	
R3108	NRSAG3J-0R0X	MG R	0.0Ω 1/16W J
R3111	NRSAG3J-332X	MG R	3.3kΩ 1/16W J
R3114	QRJ146J-100X	C R	10Ω 1/4W J
R3115	NRSAG3J-470X	MG R	47Ω 1/16W J
R3116	NRSAG3J-470X	MG R	47Ω 1/16W J
R3117	NRSAG3J-102X	MG R	1kΩ 1/16W J
R3119	NRSAG3J-121X	MG R	120Ω 1/16W J
△ R3122	QRZ021-561	F R	560Ω 1W J
R3123	NRSAG3J-122X	MG R	1.2kΩ 1/16W J
R3124	NRSAG3J-390X	MG R	39Ω 1/16W J
R3125	NRSAG3J-5R6X	MG R	5.6Ω 1/16W J
R3126	NRSAG3J-563X	MG R	56kΩ 1/16W J

AV-27F703
AV-27F713
AV-27F803

△ Symbol No.	Part No.	Part Name	Description
R3127	NRS463J-563X	MG R	56kΩ 1/16W J
R3128	NRS463J-122X	MG R	1.2kΩ 1/16W J
R3129	NRS463J-5R6X	MG R	5.6Ω 1/16W J
R3130	NRS463J-390X	MG R	39Ω 1/16W J
R3131	NRS463J-121X	MG R	120Ω 1/16W J
R3132	QRL029J-391	OM R	390Ω 2W J
R3134	NRS463J-222X	MG R	2.2kΩ 1/16W J
R3136	NRS463J-333X	MG R	33kΩ 1/16W J
R3139	NRS463J-681X	MG R	680Ω 1/16W J
R3142	NRS463J-124X	MG R	120kΩ 1/16W J
R3143	NRS463J-681X	MG R	680Ω 1/16W J
R3145	NRS463J-5R6X	MG R	5.6Ω 1/16W J
R3146	NRS463J-5R6X	MG R	5.6Ω 1/16W J
R3151	NRS463J-473X	MG R	47kΩ 1/16W J
R3152	NRS463J-683X	MG R	68kΩ 1/16W J
R3153	NRS463J-683X	MG R	68kΩ 1/16W J
R3154	NRS463J-473X	MG R	47kΩ 1/16W J
R3301	NRS463J-151X	MG R	150Ω 1/16W J
R3302	NRS463J-151X	MG R	150Ω 1/16W J
R3303	NRS463J-151X	MG R	150Ω 1/16W J
R3304	NRS463J-121X	MG R	120Ω 1/16W J
R3305	NRS463J-121X	MG R	120Ω 1/16W J
R3306	NRS463J-121X	MG R	120Ω 1/16W J
R3307	NRS463J-470X	MG R	47Ω 1/16W J
R3308	NRS463J-470X	MG R	47Ω 1/16W J
R3309	NRS463J-470X	MG R	47Ω 1/16W J
R3310	QRG029J-153	OM R	15kΩ 2W J
R3311	QRG029J-153	OM R	15kΩ 2W J
R3312	QRG029J-153	OM R	15kΩ 2W J
R3313	QRG029J-183	OM R	18kΩ 2W J
R3314	QRG029J-183	OM R	18kΩ 2W J
R3315	QRG029J-183	OM R	18kΩ 2W J
R3316	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3317	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3318	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3325	QRC121K-102Z	MF R	1kΩ 1/2W K
R3326	QRC121K-102Z	MF R	1kΩ 1/2W K
R3327	QRC121K-102Z	MF R	1kΩ 1/2W K
R3331	NRS463J-272X	MG R	2.7kΩ 1/16W J
R3332	NRS463J-272X	MG R	2.7kΩ 1/16W J
R3333	NRS463J-272X	MG R	2.7kΩ 1/16W J
R3334	NRS463J-152X	MG R	1.5kΩ 1/16W J
R3335	NRS463J-271X	MG R	270Ω 1/16W J
R3336	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3337	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3338	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R3351	NRS463J-102X	MG R	1kΩ 1/16W J
R3352	NRS463J-102X	MG R	1kΩ 1/16W J
R3353	NRS463J-102X	MG R	1kΩ 1/16W J
R3354	NRS463J-102X	MG R	1kΩ 1/16W J
R3362	QVY160-150Y	IM BUS WIRE	
R3363	QRC121K-474Z	MF R	470kΩ 1/2W K
C3101	QETN1M-106	E CAP.	10μF 50V M
C3109	QETN1M-107	E CAP.	100μF 16V M
C3110	NDC31HJ-221X	C CAP.	220pF 50V J
C3111	NDC31HJ-221X	C CAP.	220pF 50V J
C3113	QETN2CM-106	E CAP.	10μF 160V M
C3114	QCB32HK-472	C CAP.	4700pF 500V K
C3115	QCB32HK-472	C CAP.	4700pF 500V K
C3117	QETN2CM-106	E CAP.	10μF 160V M
C3118	QETN0JM-107	E CAP.	100μF 6.3V M
C3119	QETN1M-107	E CAP.	100μF 10V M
C3120	QETN1M-337	E CAP.	330μF 10V M
C3121	QCS32HJ-151	C CAP.	150pF 500V J
C3122	NDC31HJ-5R0X	C CAP.	5.0pF 50V J
C3125	NRS463J-0R0X	MG R	0.0Ω 1/16W J
C3151	NCB21EK-104X	C CAP.	0.1μF 25V K
C3152	NCB21EK-104X	C CAP.	0.1μF 25V K
C3301	NDC31HJ-561X	C CAP.	560pF 50V J
C3302	NDC31HJ-391X	C CAP.	390pF 50V J
C3303	NDC31HJ-561X	C CAP.	560pF 50V J
C3321	QETN2EM-105	E CAP.	1μF 250V M
C3322	QETN2EM-105	E CAP.	1μF 250V M
C3323	QETN1M-107	E CAP.	100μF 16V M
C3351	QETN1M-107	E CAP.	100μF 16V M
C3362	QVY153-050Y	IM BUS WIRE	
C3363	QCZ0324-102	C CAP.	1000pF 3kV P
L3301	QQL244K-180Z	COIL	18μH K
L3302	QQL244K-180Z	COIL	18μH K
L3303	QQL244K-180Z	COIL	18μH K

△ Symbol No.	Part No.	Part Name	Description
L3304	QQL244K-470Z	COIL	47μH K
L3305	QQL244K-470Z	COIL	47μH K
L3306	QQL244K-470Z	COIL	47μH K
K3102	CE41492-001Z	COIL	
K3103	CE41492-001Z	COIL	
K3104	CE41492-001Z	COIL	
K3105	CE41492-001Z	COIL	
△ SK3001	QNZ0464-001	CRT SOCKET	
CN3004	QJB003-073226	SIN ID C-B WIRE	
CN3005	WJAO029-001A	E-S ID WIRE	

PIP P.W. BOARD ASS'Y
(SGJ-4001A-M2) [AV-27F803/s ONLY]

△ Symbol No.	Part No.	Part Name	Description
SF4101	QAX0726-001	SAW FILTER	
△ TU4001	QAU0273-001	TUNER	
IC4101	MS2342SP	IC	
IC4301	SDA9889X	IC	
Q4101	2SC5083/L-P/-T	TRANSISTOR	
Q4131	2SB709A/QR/-X	TRANSISTOR	
Q4301	2SD601A/QR/-X	TRANSISTOR	
Q4302	2SD601A/QR/-X	TRANSISTOR	
Q4303	2SD601A/QR/-X	TRANSISTOR	
Q4331	2SB709A/QR/-X	TRANSISTOR	
Q4332	2SB709A/QR/-X	TRANSISTOR	
Q4333	2SB709A/QR/-X	TRANSISTOR	
D4301	1S5133	DIODE	
R4001	NRS463J-103X	MG R	10kΩ 1/16W J
R4002	NRS463J-103X	MG R	10kΩ 1/16W J
R4003	NRS463J-101X	MG R	100Ω 1/16W J
R4004	NRS463J-101X	MG R	100Ω 1/16W J
R4005	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R4008	NRS463J-820X	MG R	82Ω 1/16W J
R4101	NRS463J-562X	MG R	5.6kΩ 1/16W J
R4102	NRS463J-182X	MG R	1.8kΩ 1/16W J
R4103	QRE121J-101Y	C R	100Ω 1/2W J
R4104	NRS463J-180X	MG R	18Ω 1/16W J
R4105	NRS463J-270X	MG R	27Ω 1/16W J
R4111	NRS463J-224X	MG R	220kΩ 1/16W J
R4113	NRS463J-101X	MG R	100Ω 1/16W J
R4114	NRS463J-331X	MG R	330Ω 1/16W J
R4115	NRS463J-101X	MG R	100Ω 1/16W J
R4116	NRS463J-680X	MG R	68Ω 1/16W J
R4117	NRS463J-273X	MG R	27kΩ 1/16W J
R4118	NRS463J-223X	MG R	22kΩ 1/16W J
R4120	NRS463J-273X	MG R	27kΩ 1/16W J
R4121	NRS463J-103X	MG R	10kΩ 1/16W J
R4131	NRS463J-102X	MG R	1kΩ 1/16W J
R4132	NRS463J-331X	MG R	330Ω 1/16W J
R4133	NRS463J-821X	MG R	820Ω 1/16W J
R4134	NRS463J-561X	MG R	560Ω 1/16W J
R4135	NRS463J-102X	MG R	1kΩ 1/16W J
R4161	NRS463J-332X	MG R	3.3kΩ 1/16W J
R4163	NRS463J-223X	MG R	22kΩ 1/16W J
R4171	NRS463J-103X	MG R	10kΩ 1/16W J
R4301	NRS463J-473X	MG R	47kΩ 1/16W J
R4302	NRS463J-223X	MG R	22kΩ 1/16W J
R4303	NRS463J-222X	MG R	2.2kΩ 1/16W J
R4304	NRS463J-473X	MG R	47kΩ 1/16W J
R4305	NRS463J-223X	MG R	22kΩ 1/16W J
R4306	NRS463J-222X	MG R	2.2kΩ 1/16W J
R4307	NRS463J-332X	MG R	3.3kΩ 1/16W J
R4308	NRS463J-332X	MG R	3.3kΩ 1/16W J
R4309	NRS463J-102X	MG R	1kΩ 1/16W J
R4311	NRS463J-101X	MG R	100Ω 1/16W J
R4313	NRS463J-101X	MG R	100Ω 1/16W J
R4314	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R4316	NRS463J-331X	MG R	330Ω 1/16W J
R4317	NRS463J-0R0X	MG R	0.0Ω 1/16W J

AV SEL P.W. BOARD ASS'Y
(SGJ-5001A-M2) [AV-27F803/s]

△ Symbol No.	Part No.	Part Name	Description	△ Symbol No.	Part No.	Part Name	Description
R4331	NRS463J-221X	MG R	220Ω 1/16W J	IC5001	CXA2134Q	IC	
R4332	NRS463J-102X	MG R	1kΩ 1/16W J	IC5151	NJM2150AD	IC	
R4337	NRS463J-221X	MG R	220Ω 1/16W J	IC5301	PQ3R013	IC	
R4338	NRS463J-102X	MG R	1kΩ 1/16W J	IC5501	TA1218AN	IC	
R4343	NRS463J-221X	MG R	220Ω 1/16W J	Q5001	2SB709A/QR/-X	TRANSISTOR	
R4344	NRS463J-102X	MG R	1kΩ 1/16W J	Q5002	2SB709A/QR/-X	TRANSISTOR	
C4001	QETN1HM-475	E CAP.	4.7μF 50V M	Q5384	DTC323TK	DIGI TRANSISTOR	
C4003	QETN1HM-106	E CAP.	10μF 50V M	Q5385	DTC323TK	DIGI TRANSISTOR	
C4004	QETN1CM-107	E CAP.	100μF 16V M	Q5386	DTC323TK	DIGI TRANSISTOR	
C4006	QETN1EM-476	E CAP.	47μF 25V M	Q5387	DTC323TK	DIGI TRANSISTOR	
C4101	NCB31HK-103X	C CAP.	0.01μF 50V K	Q5501	2SB709A/QR/-X	TRANSISTOR	
C4102	NCB31HK-103X	C CAP.	0.01μF 50V K	D5391	MTZJ9.1C	ZENER DIODE	
C4104	NCB31HK-103X	C CAP.	0.01μF 50V K	D5392	MTZJ9.1C	ZENER DIODE	
C4105	NCB31HK-103X	C CAP.	0.01μF 50V K	D5501	MTZJ9.1C	ZENER DIODE	
C4106	QETN1EM-476	E CAP.	47μF 25V M	D5502	MTZJ9.1C	ZENER DIODE	
C4107	NCB31HK-103X	C CAP.	0.01μF 50V K	D5503	MTZJ9.1C	ZENER DIODE	
C4113	NCB31HK-103X	C CAP.	0.01μF 50V K	D5504	MTZJ9.1C	ZENER DIODE	
C4114	NCB31HK-103X	C CAP.	0.01μF 50V K	D5505	MTZJ9.1C	ZENER DIODE	
C4116	QFVFLHJ-224Z	MF CAP.	0.22μF 50V J	D5507	MTZJ9.1C	ZENER DIODE	
C4117	QETN1EM-476	E CAP.	47μF 25V M	D5508	MTZJ9.1C	ZENER DIODE	
C4118	NCB31HK-103X	C CAP.	0.01μF 50V K	D5509	MTZJ9.1C	ZENER DIODE	
C4119	NDC31HJ-681X	C CAP.	680μF 50V J	D5510	MTZJ9.1C	ZENER DIODE	
C4120	QETN1HM-474	E CAP.	0.47μF 50V M	D5511	MTZJ9.1C	ZENER DIODE	
C4124	NCB31HK-103X	C CAP.	0.01μF 50V K	D5512	MTZJ9.1C	ZENER DIODE	
C4131	NCB31HK-103X	C CAP.	0.01μF 50V K	D5513	MTZJ9.1C	ZENER DIODE	
C4132	NDC31HJ-181X	C CAP.	180μF 50V J	D5514	MTZJ9.1C	ZENER DIODE	
C4161	QETN1HM-106	E CAP.	10μF 50V M	D5515	MTZJ9.1C	ZENER DIODE	
C4168	NCB31HK-103X	C CAP.	0.01μF 50V K	R5001	NRS463J-105X	MG R	1MΩ 1/16W J
C4301	NRS463J-0R0X	MG R	0.0Ω 1/16W J	R5002	NRS463J-104X	MG R	100kΩ 1/16W J
C4302	NRS463J-0R0X	MG R	0.0Ω 1/16W J	R5003	NRS463J-682X	MG R	6.8kΩ 1/16W J
C4312	NDC31HJ-270X	C CAP.	270μF 50V J	R5004	NRS463J-682X	MG R	6.8kΩ 1/16W J
C4313	NDC31HJ-270X	C CAP.	270μF 50V J	R5005	NRS463J-623X	MG R	62kΩ 1/16W F
C4314	QETN1HM-106	E CAP.	10μF 50V M	R5007	NRS463J-332X	MG R	3.3kΩ 1/16W J
C4315	NCB31HK-103X	C CAP.	0.01μF 50V K	R5008	NRS463J-302X	MG R	3kΩ 1/16W J
C4316	NCB31HK-103X	C CAP.	0.01μF 50V K	R5010	NRS463J-392X	MG R	3.9kΩ 1/16W J
C4317	NCB31HK-103X	C CAP.	0.01μF 50V K	R5011	NRS463J-221X	MG R	220Ω 1/16W J
C4318	NCB31HK-103X	C CAP.	0.01μF 50V K	R5012	NRS463J-221X	MG R	220Ω 1/16W J
C4319	QETN1HM-106	E CAP.	10μF 50V M	R5031	NRS463J-101X	MG R	100Ω 1/16W J
C4320	NCB31HK-103X	C CAP.	0.01μF 50V K	R5032	NRS463J-101X	MG R	100Ω 1/16W J
C4321	QETN1HM-105	E CAP.	1μF 50V M	R5033	NRS463J-272X	MG R	2.7kΩ 1/16W J
C4322	NCB31HK-103X	C CAP.	0.01μF 50V K	R5034	NRS463J-272X	MG R	2.7kΩ 1/16W J
C4323	QETN1HM-106	E CAP.	10μF 50V M	R5151	NRS463J-223X	MG R	22kΩ 1/16W J
C4324	NCB31HK-103X	C CAP.	0.01μF 50V K	R5152	NRS463J-223X	MG R	22kΩ 1/16W J
C4325	NCB31HK-103X	C CAP.	0.01μF 50V K	R5153	NRS463J-223X	MG R	22kΩ 1/16W J
C4326	NCB31EK-104X	C CAP.	0.1μF 25V K	R5154	NRS463J-223X	MG R	22kΩ 1/16W J
C4327	QETN1HM-225	E CAP.	2.2μF 50V M	R5155	NRS463J-0R0X	MG R	0.0Ω 1/16W J
C4328	NCB31HK-103X	C CAP.	0.01μF 50V K	R5157	NRS463J-0R0X	MG R	0.0Ω 1/16W J
C4329	QETN1HM-225	E CAP.	2.2μF 50V M	R5159	NRS463J-103X	MG R	10kΩ 1/16W J
C4330	NCB31HK-103X	C CAP.	0.01μF 50V K	R5301	NRS463J-0R0X	MG R	0.0Ω 1/16W J
C4331	NCB31EK-104X	C CAP.	0.1μF 25V K	R5302	NRS463J-0R0X	MG R	0.0Ω 1/16W J
L4001	QQL244K-560Z	COIL	56μH K	R5384	NRS463J-223X	MG R	22kΩ 1/16W J
L4101	QQL2014-R22	COIL		R5385	NRS463J-223X	MG R	22kΩ 1/16W J
L4113	QQL244K-4R7Z	COIL	4.7μH K	R5386	NRS463J-223X	MG R	22kΩ 1/16W J
L4131	QQL244K-150Z	COIL	15μH K	R5387	NRS463J-223X	MG R	22kΩ 1/16W J
L4302	QQL244J-6R8Z	COIL	6.8μH J	R5391	NRS463J-221X	MG R	220Ω 1/16W J
L4303	QQL244J-6R8Z	COIL	6.8μH J	R5392	NRS463J-221X	MG R	220Ω 1/16W J
L4304	QQL244J-6R8Z	COIL	6.8μH J	R5393	NRS463J-823X	MG R	82kΩ 1/16W J
CF4131	QAX0639-001Z	C TRAP		R5394	NRS463J-823X	MG R	82kΩ 1/16W J
X4301	QAX0521-001Z	CRYSTAL RESONATOR		R5395	NRS463J-221X	MG R	220Ω 1/16W J
T4111	QQR0907-001	IF TRANSFORMER		R5396	NRS463J-221X	MG R	220Ω 1/16W J
CN4002	QGB1505K1-25	B TO B CONNE		R5501	NRS463J-221X	MG R	220Ω 1/16W J
				R5502	NRS463J-221X	MG R	220Ω 1/16W J
				R5503	NRS463J-221X	MG R	220Ω 1/16W J
				R5504	NRS463J-221X	MG R	220Ω 1/16W J
				R5505	NRS463J-221X	MG R	220Ω 1/16W J
				R5507	NRS463J-103X	MG R	10kΩ 1/16W J
				R5508	NRS463J-153X	MG R	15kΩ 1/16W J
				R5509	NRS463J-221X	MG R	220Ω 1/16W J
				R5510	NRS463J-221X	MG R	220Ω 1/16W J
				R5511	NRS463J-221X	MG R	220Ω 1/16W J
				R5512	NRS463J-221X	MG R	220Ω 1/16W J
				R5513	NRS463J-153X	MG R	15kΩ 1/16W J
				R5514	NRS463J-103X	MG R	10kΩ 1/16W J
				R5515	NRS463J-103X	MG R	10kΩ 1/16W J
				R5516	NRS463J-103X	MG R	10kΩ 1/16W J
				R5517	NRS463J-103X	MG R	10kΩ 1/16W J
				R5519	NRS463J-750X	MG R	75Ω 1/16W J
				R5520	NRS463J-750X	MG R	75Ω 1/16W J
				R5521	NRS463J-750X	MG R	75Ω 1/16W J
				R5522	NRS463J-224X	MG R	220kΩ 1/16W J
				R5523	NRS463J-224X	MG R	220kΩ 1/16W J

AV-27F703
AV-27F713
AV-27F803

Symbol No.	Part No.	Part Name	Description
R5524	NRSA63J-103X	MG R	10kΩ 1/16W J
R5526	NRSA63J-103X	MG R	10kΩ 1/16W J
R5527	NRSA63J-750X	MG R	75Ω 1/16W J
R5532	NRSA63J-224X	MG R	220kΩ 1/16W J
R5533	NRSA63J-224X	MG R	220kΩ 1/16W J
R5541	NRSA63J-221X	MG R	220Ω 1/16W J
R5542	NRSA63J-221X	MG R	220Ω 1/16W J
R5543	NRSA63J-221X	MG R	220Ω 1/16W J
R5544	NRSA63J-331X	MG R	330Ω 1/16W J
R5545	NRSA63J-331X	MG R	330Ω 1/16W J
R5546	NRSA63J-103X	MG R	10kΩ 1/16W J
R5558	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R5559	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R5560	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R5561	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R5564	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R5565	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R5566	NRSA63J-224X	MG R	220kΩ 1/16W J
R5567	NRSA63J-224X	MG R	220kΩ 1/16W J
R5568	NRSA63J-221X	MG R	220Ω 1/16W J
R5569	NRSA63J-221X	MG R	220Ω 1/16W J
C5001	QENCLHM-475	E CAP.	4.7μF 50V M
C5002	NCB31HK-562X	C CAP.	5600pF 50V K
C5003	NCB31HK-123X	C CAP.	0.012μF 50V K
C5004	QETNLHM-105	E CAP.	1μF 50V M
C5005	QETNLHM-475	E CAP.	4.7μF 50V M
C5006	QETNLHM-106	E CAP.	10μF 50V M
C5007	QETNLHM-475	E CAP.	4.7μF 50V M
C5008	QETNLHM-107	E CAP.	100μF 16V M
C5009	QENCLHM-475	E CAP.	4.7μF 50V M
C5010	QETNLHM-475	E CAP.	4.7μF 50V M
C5011	QENCLHM-475	E CAP.	4.7μF 50V M
C5012	NCB31HK-272X	C CAP.	2700pF 50V K
C5013	NCB31HK-473X	C CAP.	0.047μF 50V K
C5014	QENCLHM-475	E CAP.	4.7μF 50V M
C5015	QBTCCLK-106Z	TAN.CAP.	10μF 16V K
C5016	QETNLHM-105	E CAP.	1μF 50V M
C5017	QENCLHM-105	E CAP.	1μF 50V M
C5018	QENCLHM-105	E CAP.	1μF 50V M
C5019	NCB31HK-223X	C CAP.	0.022μF 50V K
C5020	NCB31HK-472X	C CAP.	4700pF 50V K
C5021	QENCLHM-475	E CAP.	4.7μF 50V M
C5022	NCB31EK-104X	C CAP.	0.1μF 25V K
C5023	NCB31HK-472X	C CAP.	4700pF 50V K
C5024	QENCLHM-475	E CAP.	4.7μF 50V M
C5025	NCB31EK-104X	C CAP.	0.1μF 25V K
C5026	QBTCCLK-335Z	TAN.CAP.	3.3μF 16V K
C5031	QETNLHM-106	E CAP.	10μF 50V M
C5151	QENCLHM-105	E CAP.	1μF 50V M
C5152	QENCLHM-105	E CAP.	1μF 50V M
C5153	NCB31HK-332X	C CAP.	3300pF 50V K
C5154	NCB31HK-332X	C CAP.	3300pF 50V K
C5155	NCB31EK-333X	C CAP.	0.033μF 25V K
C5156	NCB31EK-333X	C CAP.	0.033μF 25V K
C5157	QETNLHM-106	E CAP.	10μF 50V M
C5158	QETNLHM-106	E CAP.	10μF 50V M
C5159	QETNLHM-476	E CAP.	47μF 25V M
C5160	NCB31EK-104X	C CAP.	0.1μF 25V K
C5301	QETNLHM-476	E CAP.	47μF 25V M
C5302	QETNLHM-227	E CAP.	220μF 10V M
C5391	QETNLHM-474	E CAP.	0.47μF 50V M
C5392	QETNLHM-474	E CAP.	0.47μF 50V M
C5501	QETNLHM-225	E CAP.	2.2μF 50V M
C5502	QETNLHM-225	E CAP.	2.2μF 50V M
C5503	QETNLHM-106	E CAP.	10μF 50V M
C5504	QENCLHM-106	E CAP.	10μF 16V M
C5506	QETNLHM-106	E CAP.	10μF 50V M
C5508	QETNLHM-106	E CAP.	10μF 50V M
C5509	NCB31HK-103X	C CAP.	0.01μF 50V K
C5520	QETNLHM-225	E CAP.	2.2μF 50V M
C5521	QETNLHM-225	E CAP.	2.2μF 50V M
C5531	NCB31HK-103X	C CAP.	0.01μF 50V K
C5532	QETNLHM-476	E CAP.	47μF 25V M
C5533	NCB31HK-103X	C CAP.	0.01μF 50V K
C5534	QENCLHM-106	E CAP.	10μF 16V M
C5544	QETNLHM-225	E CAP.	2.2μF 50V M
C5545	QETNLHM-225	E CAP.	2.2μF 50V M
J5501	QNZ0454-001	AV JACK	
J5502	QNN0349-001	PIN JACK	
J5503	QNN0348-001	PIN JACK	

Symbol No.	Part No.	Part Name	Description
J5504	QNN0348-001	PIN JACK	
CN5M01	QGC2505C2-38	CARD EDGE CONNE	8035
CN5001	QGB1505K1-35	B TO B CONNE	
CN5003	QGB1505K1-15	B TO B CONNE	
CN5006	QGA2501C5-05Z	W TO B CONNE	

AV SEL P.W. BOARD ASS'Y
(SGJ-5002A-M2) [AV-27F703/s] [AV-27F713/s]

Symbol No.	Part No.	Part Name	Description
IC5001	CXA2134Q	IC	
IC5151	NJM2150AD	IC	
IC5201	TC90A49P	IC	
IC5501	TA1218AN	IC	
Q5001	2SB709A/QR/-X	TRANSISTOR	
Q5002	2SB709A/QR/-X	TRANSISTOR	
Q5211	2SD601A/QR/-X	TRANSISTOR	
Q5212	2SD601A/QR/-X	TRANSISTOR	
Q5251	2SD601A/QR/-X	TRANSISTOR	
Q5252	2SB709A/QR/-X	TRANSISTOR	
Q5253	2SB709A/QR/-X	TRANSISTOR	
Q5261	2SB709A/QR/-X	TRANSISTOR	
Q5262	2SD601A/QR/-X	TRANSISTOR	
Q5263	2SB709A/QR/-X	TRANSISTOR	
Q5384	DTC323TK	DIGI TRANSISTOR	
Q5385	DTC323TK	DIGI TRANSISTOR	
Q5386	DTC323TK	DIGI TRANSISTOR	
Q5387	DTC323TK	DIGI TRANSISTOR	
Q5501	2SB709A/QR/-X	TRANSISTOR	
D5391	MTZJ9.1C	ZENER DIODE	
D5392	MTZJ9.1C	ZENER DIODE	
D5501	MTZJ9.1C	ZENER DIODE	
D5502	MTZJ9.1C	ZENER DIODE	
D5503	MTZJ9.1C	ZENER DIODE	
D5504	MTZJ9.1C	ZENER DIODE	
D5505	MTZJ9.1C	ZENER DIODE	
D5507	MTZJ9.1C	ZENER DIODE	
D5508	MTZJ9.1C	ZENER DIODE	
D5509	MTZJ9.1C	ZENER DIODE	
D5510	MTZJ9.1C	ZENER DIODE	
D5511	MTZJ9.1C	ZENER DIODE	
D5512	MTZJ9.1C	ZENER DIODE	
D5513	MTZJ9.1C	ZENER DIODE	
R5001	NRSA63J-105X	MG R	1MΩ 1/16W J
R5002	NRSA63J-104X	MG R	100kΩ 1/16W J
R5003	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R5004	NRSA63J-682X	MG R	6.8kΩ 1/16W J
R5005	NRSA63F-623X	MG R	62kΩ 1/16W F
R5007	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R5008	NRSA63J-302X	MG R	3kΩ 1/16W J
R5010	NRSA63J-392X	MG R	3.9kΩ 1/16W J
R5011	NRSA63J-221X	MG R	220Ω 1/16W J
R5012	NRSA63J-221X	MG R	220Ω 1/16W J
R5031	NRSA63J-101X	MG R	100Ω 1/16W J
R5032	NRSA63J-101X	MG R	100Ω 1/16W J
R5033	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R5034	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R5151	NRSA63J-223X	MG R	22kΩ 1/16W J
R5152	NRSA63J-223X	MG R	22kΩ 1/16W J
R5153	NRSA63J-223X	MG R	22kΩ 1/16W J
R5154	NRSA63J-223X	MG R	22kΩ 1/16W J
R5155	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R5157	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R5159	NRSA63J-103X	MG R	10kΩ 1/16W J
R5210	NRSA63J-0R0X	MG R	0.0Ω 1/16W J
R5211	NRSA63J-332X	MG R	3.3kΩ 1/16W J
R5212	NRSA63J-103X	MG R	10kΩ 1/16W J
R5213	NRSA63J-102X	MG R	1kΩ 1/16W J
R5214	NRSA63J-181X	MG R	180Ω 1/16W J
R5215	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R5216	NRSA63J-182X	MG R	1.8kΩ 1/16W J
R5217	NRSA63J-222X	MG R	2.2kΩ 1/16W J

△ Symbol No.	Part No.	Part Name	Description
R5240	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R5241	NRS463J-821X	MG R	820Ω 1/16W J
R5242	NRS463J-101X	MG R	100Ω 1/16W J
R5243	NRS463J-101X	MG R	100Ω 1/16W J
R5251	NRS463J-471X	MG R	470Ω 1/16W J
R5253	NRS463J-102X	MG R	1kΩ 1/16W J
R5254	NRS463J-102X	MG R	1kΩ 1/16W J
R5255	NRS463J-681X	MG R	680Ω 1/16W J
R5258	NRS463J-101X	MG R	100Ω 1/16W J
R5259	NRS463J-222X	MG R	2.2kΩ 1/16W J
R5261	NRS463J-101X	MG R	100Ω 1/16W J
R5262	NRS463J-222X	MG R	2.2kΩ 1/16W J
R5263	NRS463J-471X	MG R	470Ω 1/16W J
R5265	NRS463J-102X	MG R	1kΩ 1/16W J
R5269	NRS463J-681X	MG R	680Ω 1/16W J
R5270	NRS463J-102X	MG R	1kΩ 1/16W J
R5384	NRS463J-223X	MG R	22kΩ 1/16W J
R5385	NRS463J-223X	MG R	22kΩ 1/16W J
R5386	NRS463J-223X	MG R	22kΩ 1/16W J
R5387	NRS463J-223X	MG R	22kΩ 1/16W J
R5391	NRS463J-221X	MG R	220Ω 1/16W J
R5392	NRS463J-221X	MG R	220Ω 1/16W J
R5393	NRS463J-823X	MG R	82kΩ 1/16W J
R5394	NRS463J-823X	MG R	82kΩ 1/16W J
R5395	NRS463J-221X	MG R	220Ω 1/16W J
R5396	NRS463J-221X	MG R	220Ω 1/16W J
R5501	NRS463J-221X	MG R	220Ω 1/16W J
R5502	NRS463J-221X	MG R	220Ω 1/16W J
R5503	NRS463J-221X	MG R	220Ω 1/16W J
R5504	NRS463J-221X	MG R	220Ω 1/16W J
R5505	NRS463J-221X	MG R	220Ω 1/16W J
R5507	NRS463J-103X	MG R	10kΩ 1/16W J
R5508	NRS463J-153X	MG R	15kΩ 1/16W J
R5509	NRS463J-221X	MG R	220Ω 1/16W J
R5510	NRS463J-221X	MG R	220Ω 1/16W J
R5511	NRS463J-221X	MG R	220Ω 1/16W J
R5512	NRS463J-221X	MG R	220Ω 1/16W J
R5513	NRS463J-153X	MG R	15kΩ 1/16W J
R5514	NRS463J-103X	MG R	10kΩ 1/16W J
R5515	NRS463J-103X	MG R	10kΩ 1/16W J
R5516	NRS463J-103X	MG R	10kΩ 1/16W J
R5517	NRS463J-103X	MG R	10kΩ 1/16W J
R5519	NRS463J-750X	MG R	75Ω 1/16W J
R5520	NRS463J-750X	MG R	75Ω 1/16W J
R5521	NRS463J-750X	MG R	75Ω 1/16W J
R5522	NRS463J-224X	MG R	220kΩ 1/16W J
R5523	NRS463J-224X	MG R	220kΩ 1/16W J
R5524	NRS463J-103X	MG R	10kΩ 1/16W J
R5526	NRS463J-103X	MG R	10kΩ 1/16W J
R5527	NRS463J-750X	MG R	75Ω 1/16W J
R5532	NRS463J-224X	MG R	220kΩ 1/16W J
R5533	NRS463J-224X	MG R	220kΩ 1/16W J
R5541	NRS463J-221X	MG R	220Ω 1/16W J
R5542	NRS463J-221X	MG R	220Ω 1/16W J
R5543	NRS463J-221X	MG R	220Ω 1/16W J
R5544	NRS463J-331X	MG R	330Ω 1/16W J
R5545	NRS463J-331X	MG R	330Ω 1/16W J
R5546	NRS463J-103X	MG R	10kΩ 1/16W J
R5558	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R5559	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R5560	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R5561	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R5564	NRS463J-0R0X	MG R	0.0Ω 1/16W J
R5565	NRS463J-0R0X	MG R	0.0Ω 1/16W J
C5001	QENC1HM-475	E CAP.	4.7μF 50V M
C5002	NCB31HK-562X	C CAP.	5600pF 50V K
C5003	NCB31HK-123X	C CAP.	0.012μF 50V K
C5004	QETN1HM-105	E CAP.	1μF 50V M
C5005	QETN1HM-475	E CAP.	4.7μF 50V M
C5006	QETN1HM-106	E CAP.	10μF 50V M
C5007	QETN1HM-475	E CAP.	4.7μF 50V M
C5008	QETN1CM-107	E CAP.	100μF 16V M
C5009	QENC1HM-475	E CAP.	4.7μF 50V M
C5010	QETN1HM-475	E CAP.	4.7μF 50V M
C5011	QENC1HM-475	E CAP.	4.7μF 50V M
C5012	NCB31HK-272X	C CAP.	2700pF 50V K
C5013	NCB31HK-473X	C CAP.	0.047μF 50V K
C5014	QENC1HM-475	E CAP.	4.7μF 50V M
C5015	QBTCLCK-106Z	TAN.CAP.	10μF 16V K

△ Symbol No.	Part No.	Part Name	Description
C5016	QETN1HM-105	E CAP.	1μF 50V M
C5017	QENC1HM-105	E CAP.	1μF 50V M
C5018	QENC1HM-105	E CAP.	1μF 50V M
C5019	NCB31HK-223X	C CAP.	0.022μF 50V K
C5020	NCB31HK-472X	C CAP.	4700pF 50V K
C5021	QENC1HM-475	E CAP.	4.7μF 50V M
C5022	NCB31EK-104X	C CAP.	0.1μF 25V K
C5023	NCB31HK-472X	C CAP.	4700pF 50V K
C5024	QENC1HM-475	E CAP.	4.7μF 50V M
C5025	NCB31EK-104X	C CAP.	0.1μF 25V K
C5026	QBTCLCK-335Z	TAN.CAP.	3.3μF 16V K
C5031	QETN1HM-106	E CAP.	10μF 50V M
C5151	QENC1HM-105	E CAP.	1μF 50V M
C5152	QENC1HM-105	E CAP.	1μF 50V M
C5153	NCB31HK-332X	C CAP.	3300pF 50V K
C5154	NCB31HK-332X	C CAP.	3300pF 50V K
C5155	NCB31EK-333X	C CAP.	0.033μF 25V K
C5156	NCB31EK-333X	C CAP.	0.033μF 25V K
C5157	QETN1HM-106	E CAP.	10μF 50V M
C5158	QETN1HM-106	E CAP.	10μF 50V M
C5159	QETN1EM-476	E CAP.	47μF 25V M
C5160	NCB31EK-104X	C CAP.	0.1μF 25V K
C5208	QETN1EM-476	E CAP.	47μF 25V M
C5204	NCB31HK-103X	C CAP.	0.01μF 50V K
C5205	QETN1EM-476	E CAP.	47μF 25V M
C5206	NCB31HK-103X	C CAP.	0.01μF 50V K
C5211	QENC1CM-106	E CAP.	10μF 16V M
C5212	NDC31HJ-101X	C CAP.	100pF 50V J
C5213	NDC31HJ-470X	C CAP.	47pF 50V J
C5214	NDC31HJ-181X	C CAP.	180pF 50V J
C5215	QETN1HM-474	E CAP.	0.47μF 50V M
C5226	NCB31HK-103X	C CAP.	0.01μF 50V K
C5231	QETN1CM-107	E CAP.	100μF 16V M
C5232	NCB31HK-103X	C CAP.	0.01μF 50V K
C5233	NCB31HK-103X	C CAP.	0.01μF 50V K
C5234	NCB31HK-103X	C CAP.	0.01μF 50V K
C5235	NCB31HK-103X	C CAP.	0.01μF 50V K
C5236	QETN1CM-107	E CAP.	100μF 16V M
C5237	NCB31HK-103X	C CAP.	0.01μF 50V K
C5238	QETN1CM-107	E CAP.	100μF 16V M
C5239	NCB31HK-103X	C CAP.	0.01μF 50V K
C5240	NCB31HK-103X	C CAP.	0.01μF 50V K
C5241	NCB31HK-103X	C CAP.	0.01μF 50V K
C5242	QETN1CM-107	E CAP.	100μF 16V M
C5243	NCB31HK-103X	C CAP.	0.01μF 50V K
C5246	NDC31HJ-181X	C CAP.	180pF 50V J
C5247	NCB31HK-103X	C CAP.	0.01μF 50V K
C5251	QETN1EM-476	E CAP.	47μF 25V M
C5252	NCB31HK-103X	C CAP.	0.01μF 50V K
C5253	NDC31HJ-820X	C CAP.	82pF 50V J
C5255	NDC31HJ-470X	C CAP.	47pF 50V J
C5268	NDC31HJ-150X	C CAP.	15pF 50V J
C5391	QETN1HM-474	E CAP.	0.47μF 50V M
C5392	QETN1HM-474	E CAP.	0.47μF 50V M
C5501	QETN1HM-225	E CAP.	2.2μF 50V M
C5502	QETN1HM-225	E CAP.	2.2μF 50V M
C5503	QETN1HM-106	E CAP.	10μF 50V M
C5504	QENC1CM-106	E CAP.	10μF 16V M
C5506	QETN1HM-106	E CAP.	10μF 50V M
C5508	QETN1HM-106	E CAP.	10μF 50V M
C5509	NCB31HK-103X	C CAP.	0.01μF 50V K
C5520	QETN1HM-225	E CAP.	2.2μF 50V M
C5521	QETN1HM-225	E CAP.	2.2μF 50V M
C5531	NCB31HK-103X	C CAP.	0.01μF 50V K
C5532	QETN1EM-476	E CAP.	47μF 25V M
C5533	NCB31HK-103X	C CAP.	0.01μF 50V K
C5534	QENC1CM-106	E CAP.	10μF 16V M
L5201	QUY153-050Y	IM BUS WIRE	
L5202	QQL244K-150Z	COIL	15μH K
L5211	QQL244K-4R7Z	COIL	4.7μH K
L5241	QQL244K-4R7Z	COIL	4.7μH K
L5242	QUY153-050Y	IM BUS WIRE	
L5243	QQL244K-4R7Z	COIL	4.7μH K
L5244	QQL244K-4R7Z	COIL	4.7μH K
L5251	QUY153-050Y	IM BUS WIRE	
L5261	QQL244K-150Z	COIL	15μH K
J5501	QNZ0454-001	AV JACK	
J5502	QNN0349-001	PIN JACK	
J5503	QNN0348-001	PIN JACK	
CNS001	QGB1505K1-35	B TO B CONNE	
CNS006	QGA2501C5-05Z	W TO B CONNE	

AV-27F703
AV-27F713
AV-27F803

**FRONT CONTROL P.W. BOARD ASS'Y
(SGJ-6001A-M2)**

△ Symbol No.	Part No.	Part Name	Description
R6401	NRSA63J-750X	MG R	75Ω 1/16W J
R6402	NRSA63J-224X	MG R	220kΩ 1/16W J
R6403	NRSA63J-224X	MG R	220kΩ 1/16W J
R6702	NRSA63J-102X	MG R	1kΩ 1/16W J
R6703	NRSA63J-102X	MG R	1kΩ 1/16W J
R6704	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R6705	NRSA63J-272X	MG R	2.7kΩ 1/16W J
R6706	NRSA63J-562X	MG R	5.6kΩ 1/16W J
C6401	QETN1HM-106	E CAP.	10μF 50V M
C6402	QETN1HM-225	E CAP.	2.2μF 50V M
C6403	QETN1HM-225	E CAP.	2.2μF 50V M
LC6401	QQR1199-001	N FILTER	
S6702	QSW0619-003Z	TACT SWITCH	MENU
S6703	QSW0619-003Z	TACT SWITCH	CH-
S6704	QSW0619-003Z	TACT SWITCH	CH+
S6705	QSW0619-003Z	TACT SWITCH	VOL-
S6706	QSW0619-003Z	TACT SWITCH	VOL+
J6401	CEM065-001	PIN JACK	
OR	QNN0281-003	PIN JACK	
J6402	CEM065-002	PIN JACK	
OR	QNN0281-002	PIN JACK	
J6403	CEM072-003	PIN JACK	
OR	QNN0282-001	PIN JACK	
CN6006	QJB003-054010	SIN ID C-B WIRE	
CN6007	QJB003-064426	SIN ID C-B WIRE	

**LED & POWER SW P.W. BOARD ASS'Y
(SGJ-7001A-M2)**

△ Symbol No.	Part No.	Part Name	Description
IC7701	LC30190-001B-A	LED HOLDER	
Q7702	GP1M281QK	IR DETECT UNIT	
D7701	UN2112	DIGI TRANSISTOR	
D7701	LH22440	LE DIODE	
R7708	NRSA63J-152X	MG R	1.5kΩ 1/16W J
R7709	NRSA63J-561X	MG R	56kΩ 1/16W J
R7710	NRSA63J-101X	MG R	10kΩ 1/16W J
R7711	NRSA63J-101X	MG R	10kΩ 1/16W J
C7701	QETN1EM-476	E CAP.	47μF 25V M
S7701	QSW0847-001	TACT SWITCH	POWER SW

**3D Y/C SEP MODULE P.W. BOARD ASS'Y
(SGJ0Y001A-M2) [AV-27F803/S ONLY]**

△ Symbol No.	Part No.	Part Name	Description
	SGJ0Y001A-M2	3D Y/C SEP MODULE P	

REMOTE COTROL UNIT PARTS LIST

[AV-27F703/s] (RM-C326G-1A)

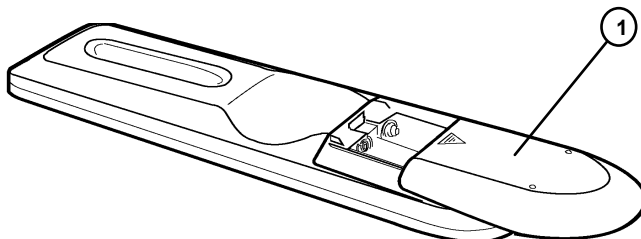
△ Ref.No.	Part No.	Part Name	Description
1	UR52EC1286C	BATTERY COVER	

[AV-27F713/s] (RM-C326-1A)

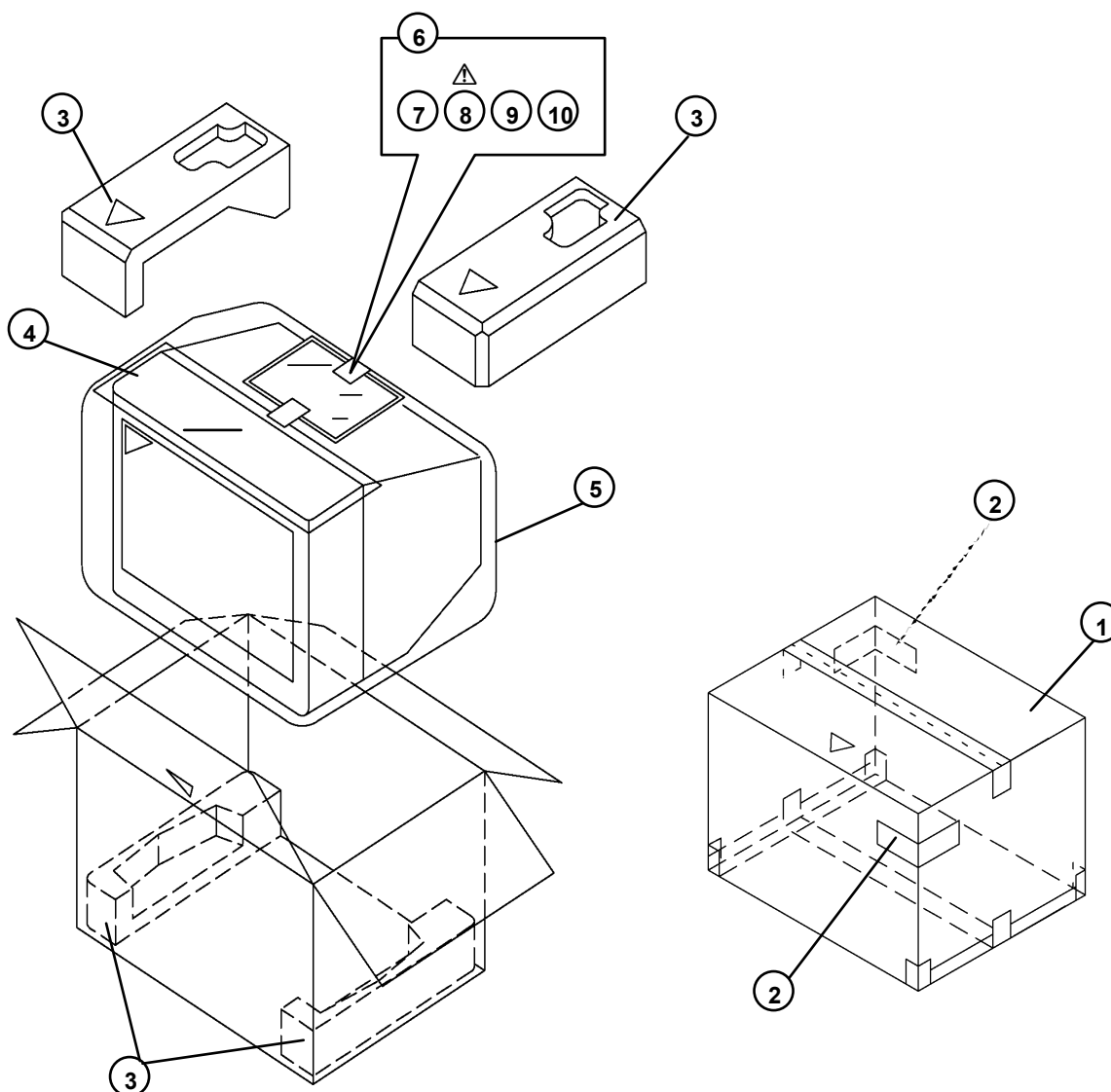
△ Ref.No.	Part No.	Part Name	Description
1	UR52EC1286A	BATTERY COVER	

[AV-27F803/s] (RM-C325G-1A)

△ Ref.No.	Part No.	Part Name	Description
1	UR52EC1286C	BATTERY COVER	



PACKING



[AV-27F703/s] [AV-27F713/s] [AV-27F803/s]

PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description
1	LC10181-025B-A	PACKING CASE	
2	CM36616-001-A	CORNER LABEL	2pcs in 1set
3	LC10884-002A-A	CUSHION ASSY	4pcs in 1set
4	CP30055-001-A	TOP COVER	
5	CP30056-008-A	POLY BAG	
6	QPA02503505	POLY BAG	
7	RM-C326G-1A	REMOCON UNIT	[AV-27F703/S]
7	RM-C326-1A	REMOCON UNIT	[AV-27F713/S]
7	RM-C325G-1A	REMOCON UNIT	[AV-27F803/S]
△ 8	LCT1134-001A-A	INSTRUCTIONS BOOK	
9	BT-51028-2Q	REGISTRATION C	
10	BT-52006-1Q	WARRANTY CARD	

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SCHEMATIC DIAGRAMS

COLOR TELEVISION

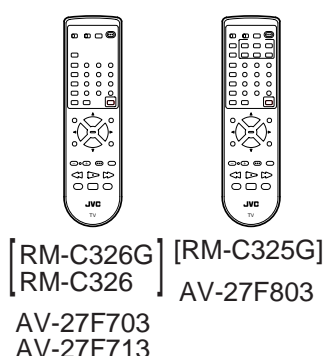
AV-27F703_{/S}
AV-27F713_{/S}
AV-27F803_{/S}

CD-ROM No.SML200207

BASIC CHASSIS

GJ

BBE



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SEMICONDUCTOR SHAPES

TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW

CHIP IC

TOP VIEW	

AV-27F703/s,AV-27F713/s,AV-27F803/s

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	:DC 20kΩ /V
(4)Oscilloscope sweeping time	:H ⇒ 20μS/div :V ⇒ 5mS/div :Others ⇒ Sweeping time is specified
(5)Voltage values	:All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board :R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	{ Ω }
K	{K Ω }
M	{M Ω }

● Rated allowable power

No indication	:1/ 16 [W]
Others	:As specified

● Type

No indication	:Carbon resistor
OMR	:Oxide metal film resistor
MFR	:Metal film resistor
MPR	:Metal plate resistor
UNFR	:Uninflamable resistor
FR	:Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	:{pF}
less than 1	:{μF}

● Withstand voltage

No indication	:DC50[V]
Others	:DC withstand voltage [V]
AC indicated	:AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]:Capacitance value [μF]/withstand voltage[V]

●Type

No indication	:Ceramic capacitor
MM	:Metalized mylar capacitor
PP	:Polypropylene capacitor
MPP	:Metalized polypropylene capacitor
MF	:Metalized film capacitor
TF	:Thin film capacitor
BP	:Bipolar electrolytic capacitor
TAN	:Tantalum capactor

(3)Coils

No unit	:[μH]
Others	:As specified

(4)Power Supply

	:B1		:B2 (12V)
	:9V		:5V

* Respective voltage values are indicated

(5)Test point

	:Test point		:Only test point display
--	-------------	--	--------------------------

(6)Connecting method

	:Connector		:Wrapping or soldering
			:Receptacle

(7)Ground symbol

	:LIVE side ground
	:ISOLATED(NEUTRAL) side ground
	:EARTH ground
	:DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

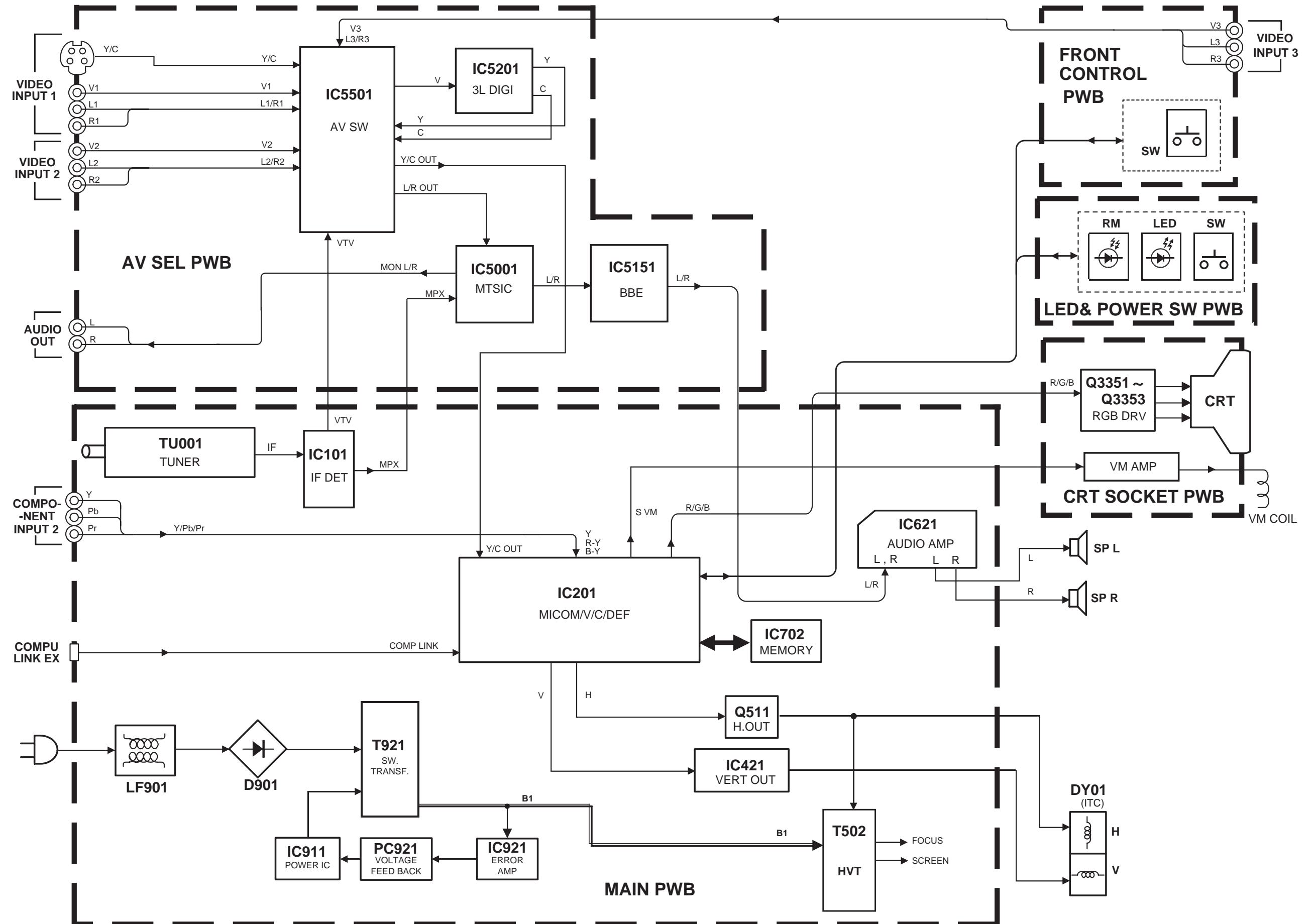
This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND.Therefore, care must be taken for the following points.

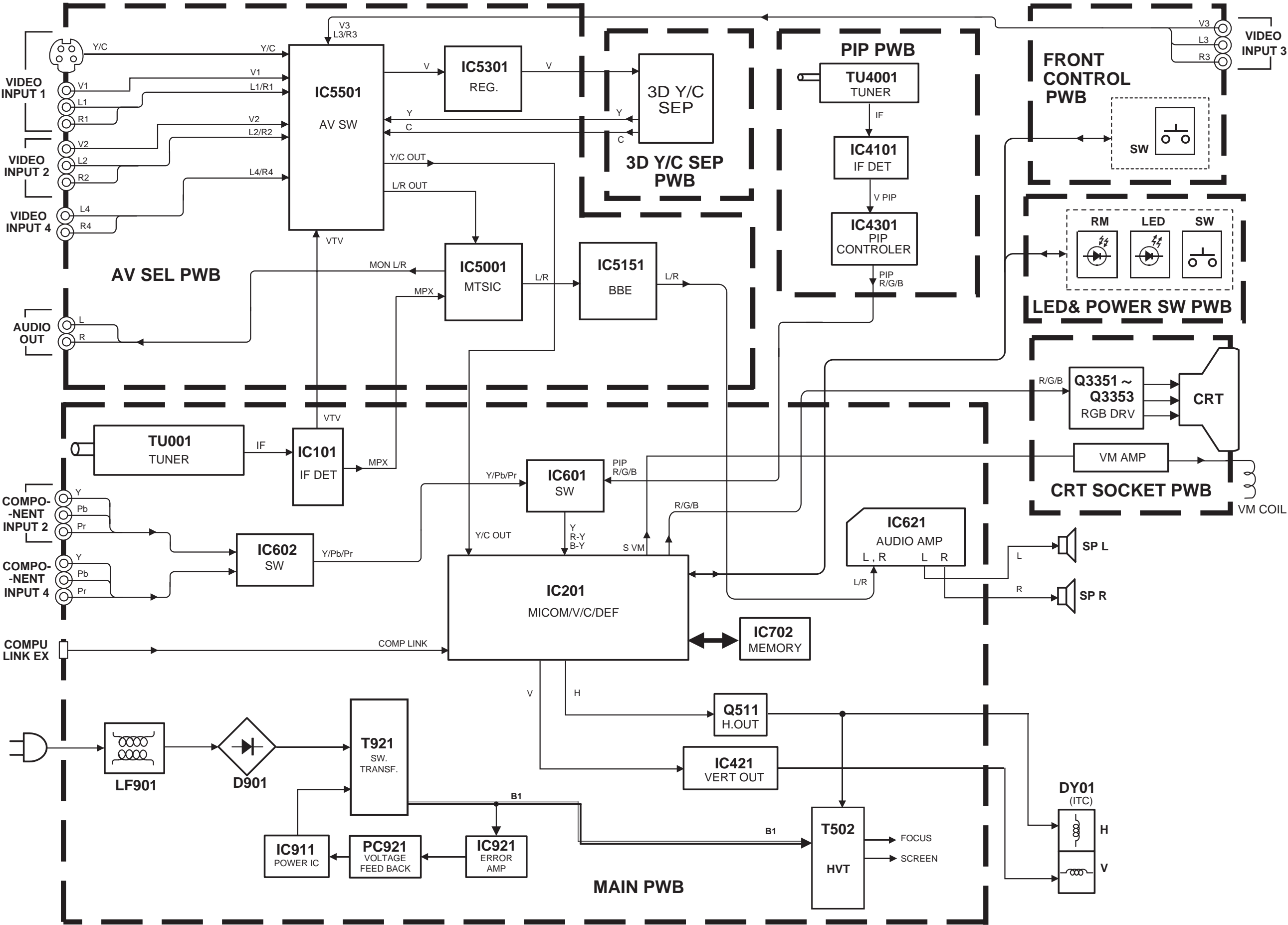
- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected , a fuse or any parts will be broken.

◇ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

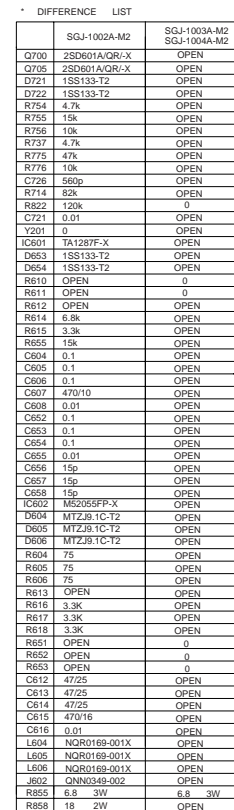
◇ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.
When ordering parts, please use the numbers that appear in the Parts List.

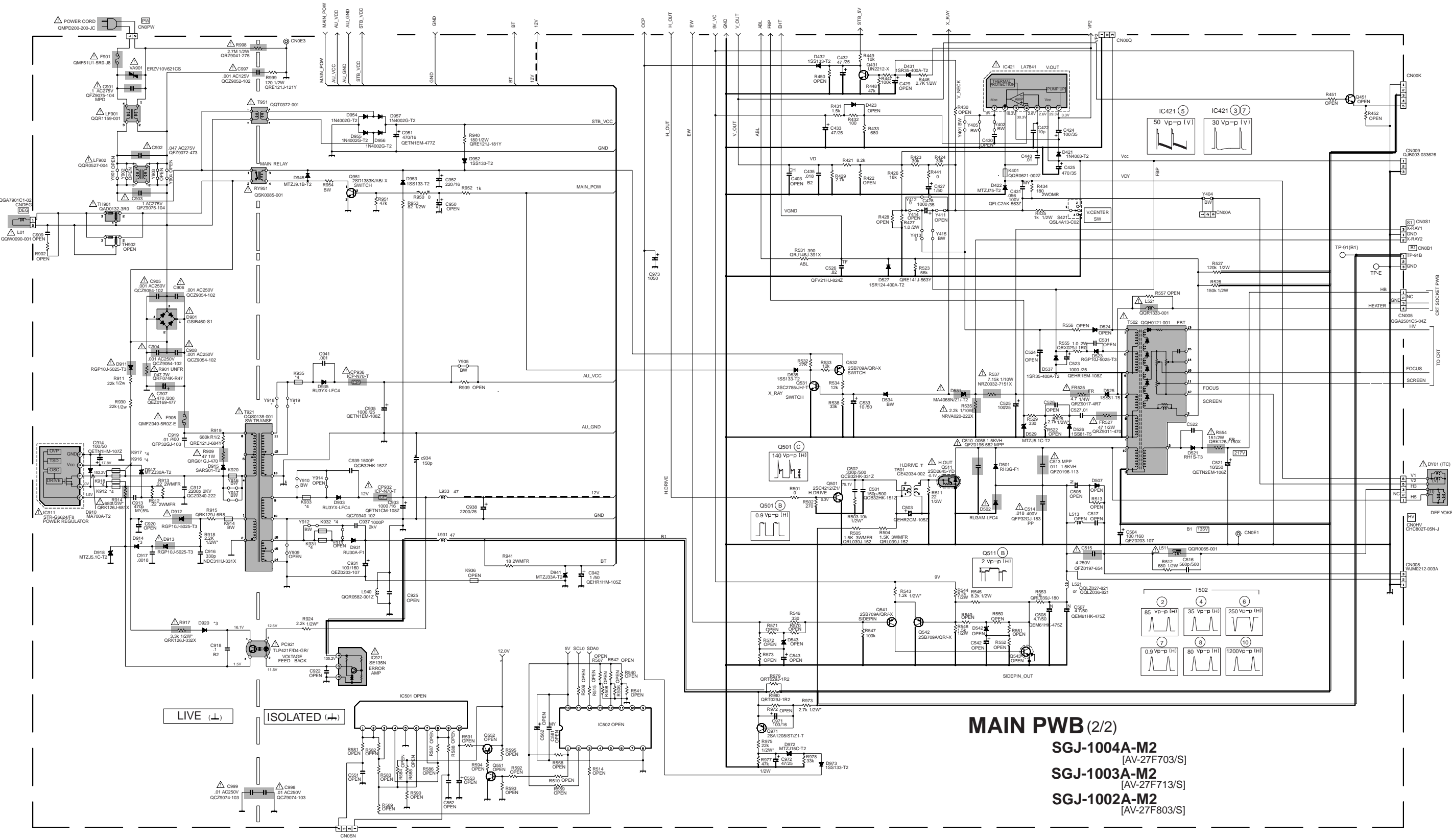
BLOCK DIAGRAM [AV-27F703,AV-27F713]



MAIN PWB (1/2)

SGJ-1002A-M2
[AV-27F803/S]



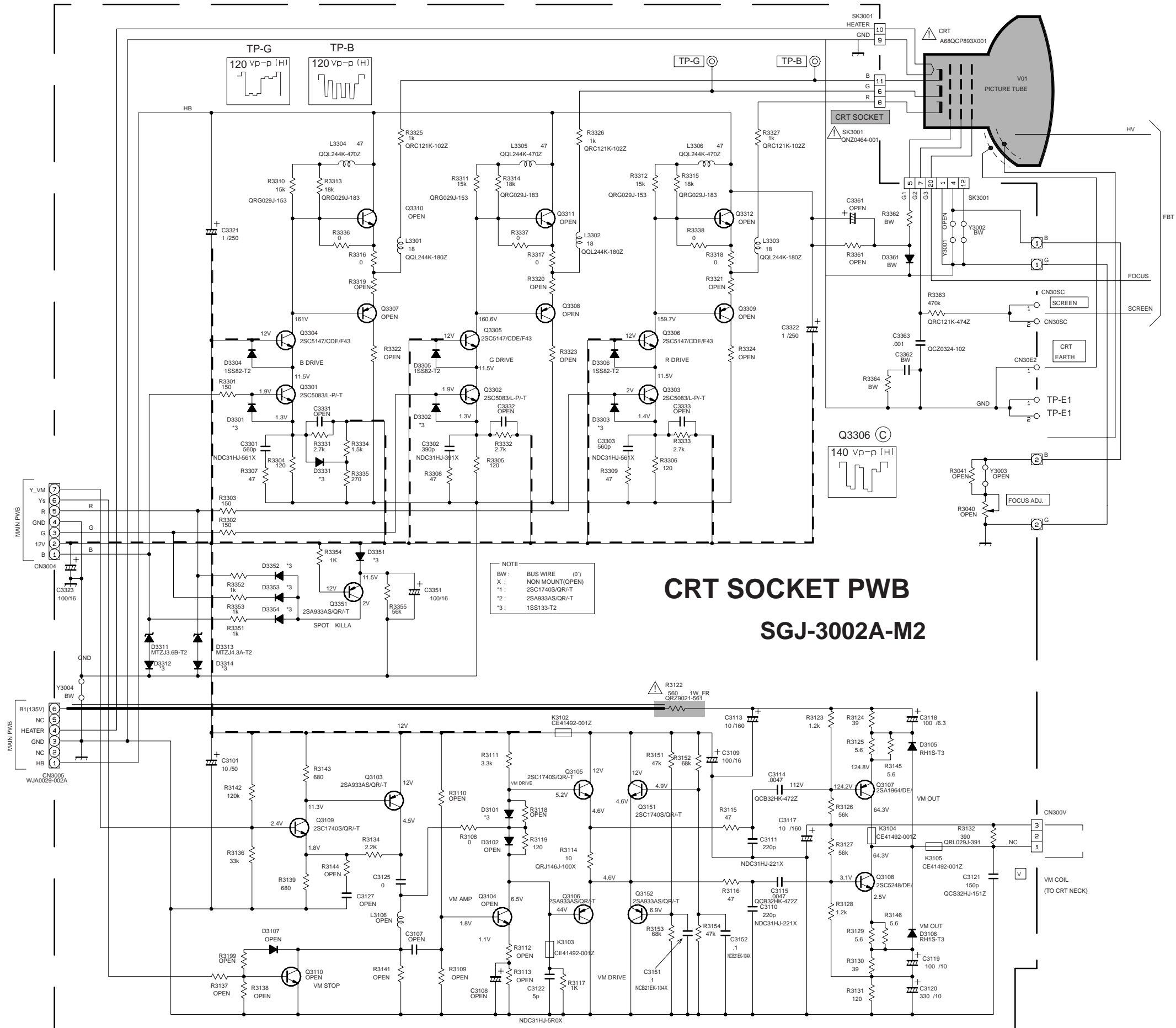


MAIN PWB (2/2)

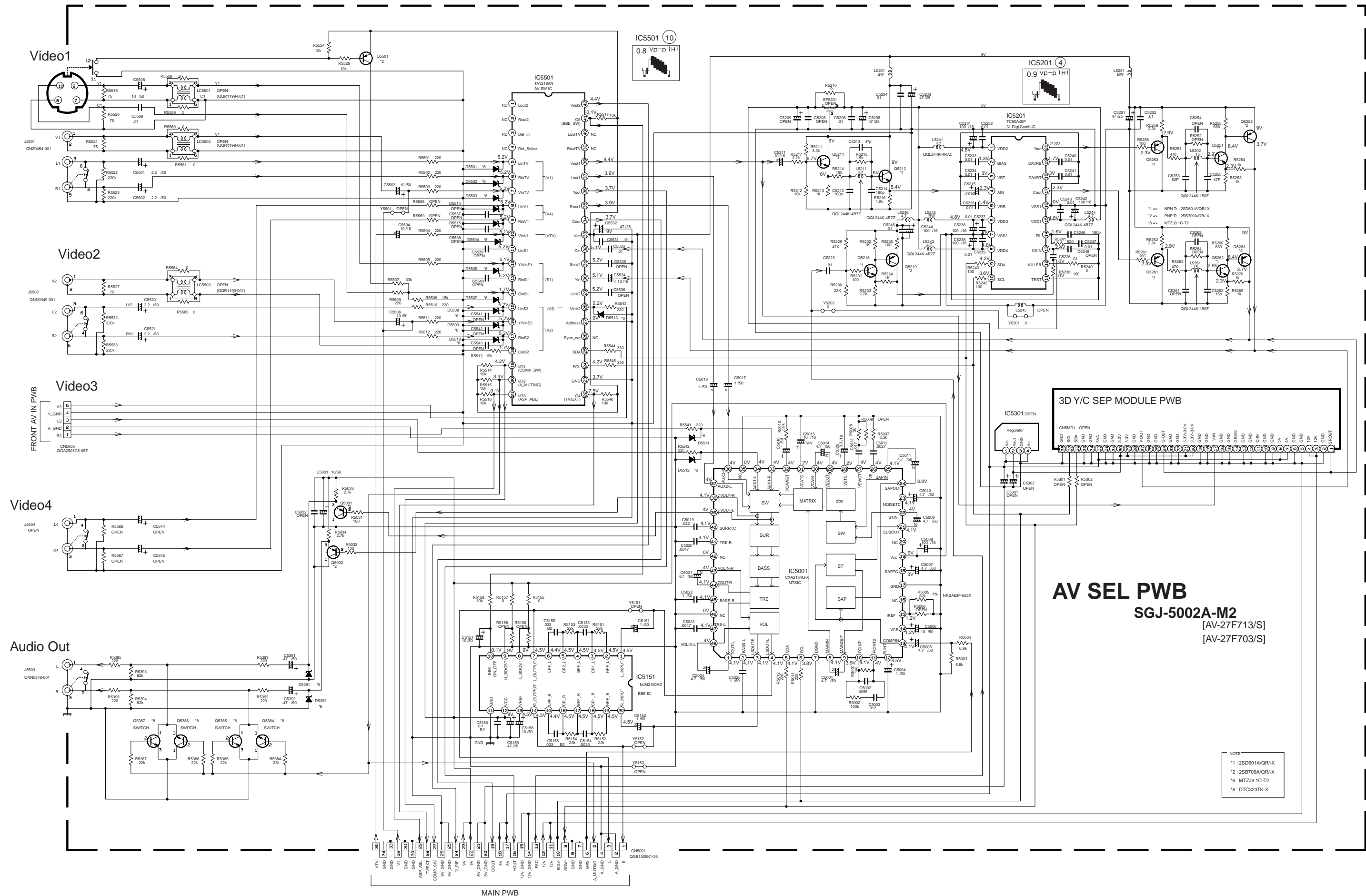
- SGJ-1004A-M2 [AV-27F703/S]
- SGJ-1003A-M2 [AV-27F713/S]
- SGJ-1002A-M2 [AV-27F803/S]

CRT SOCKET PWB

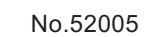
SGJ-3002A-M2



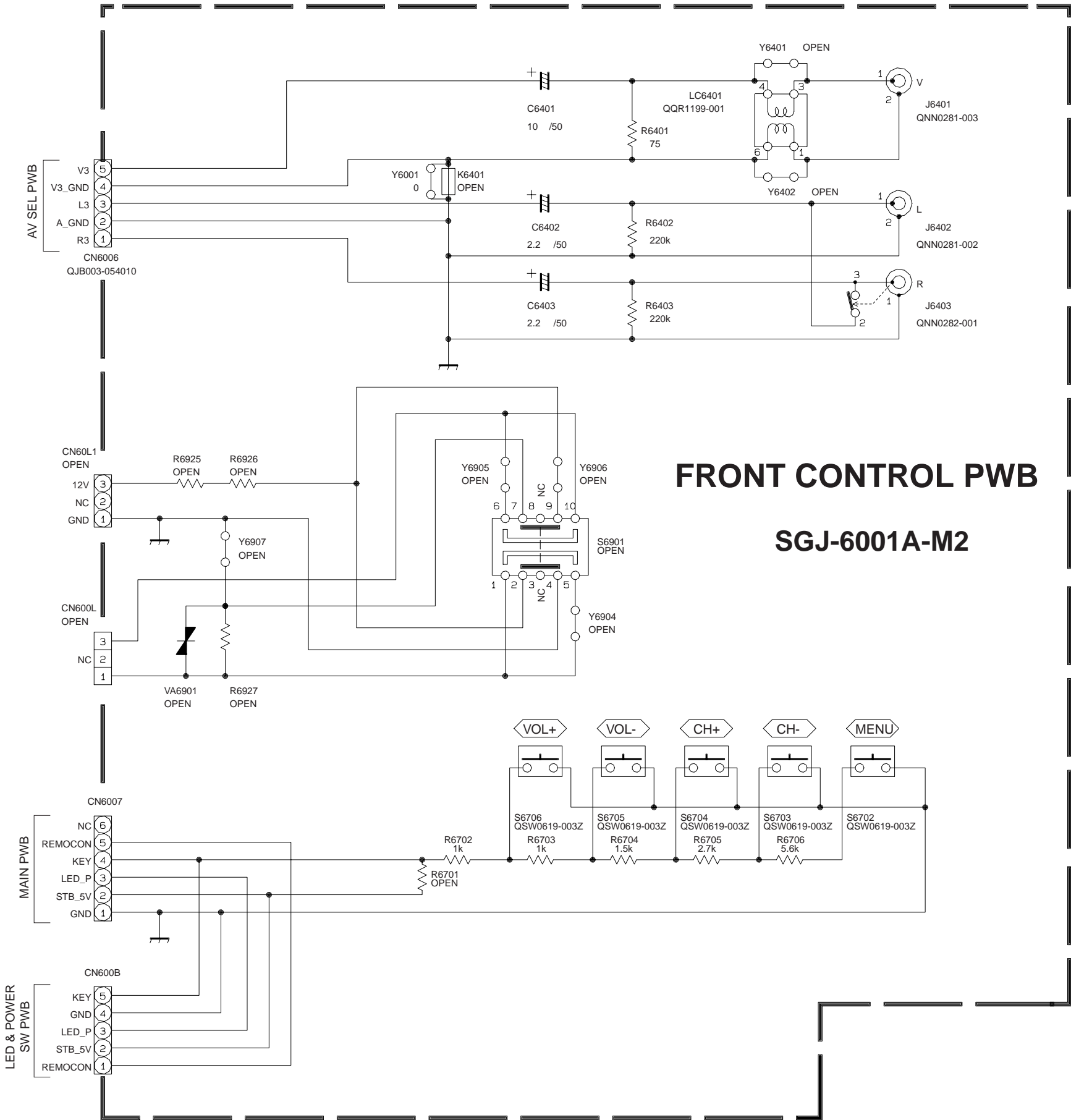
AV SEL PWB CIRCUIT DIAGRAM [AV-27F703,AV-27F713]



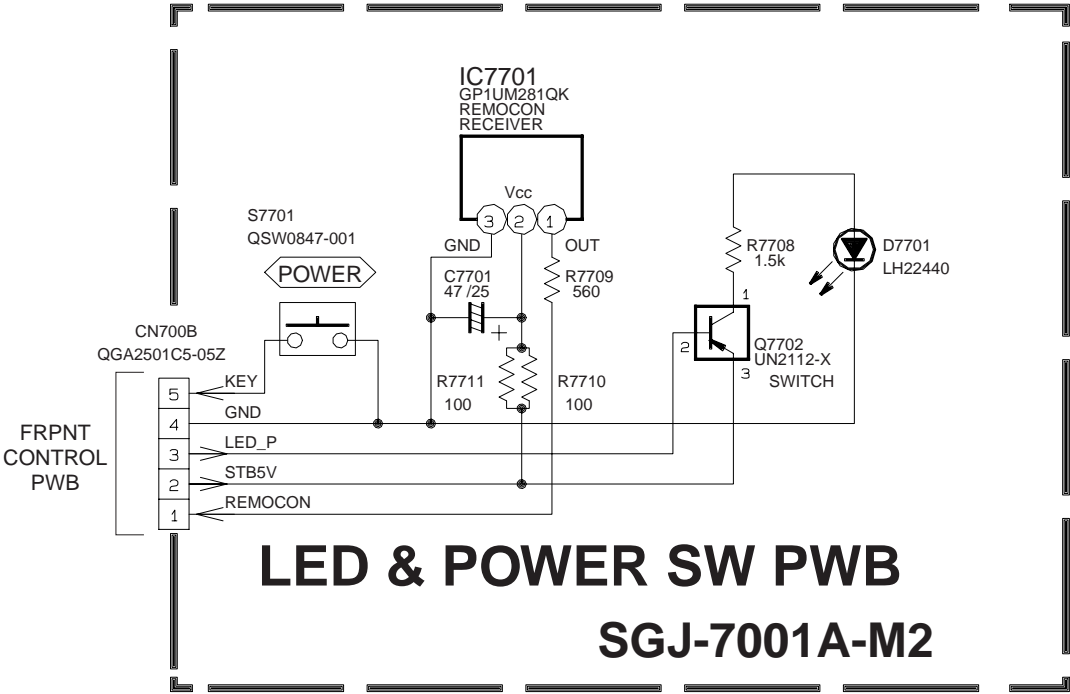
AV SEL PWB
SGJ-5001A-M2
[AV-27F803/S]

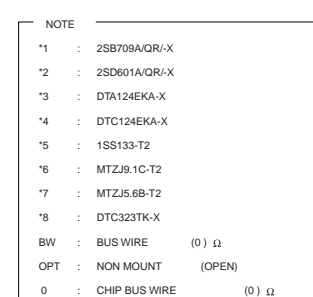


FRONT CONTROL PWB CIRCUIT DIAGRAM

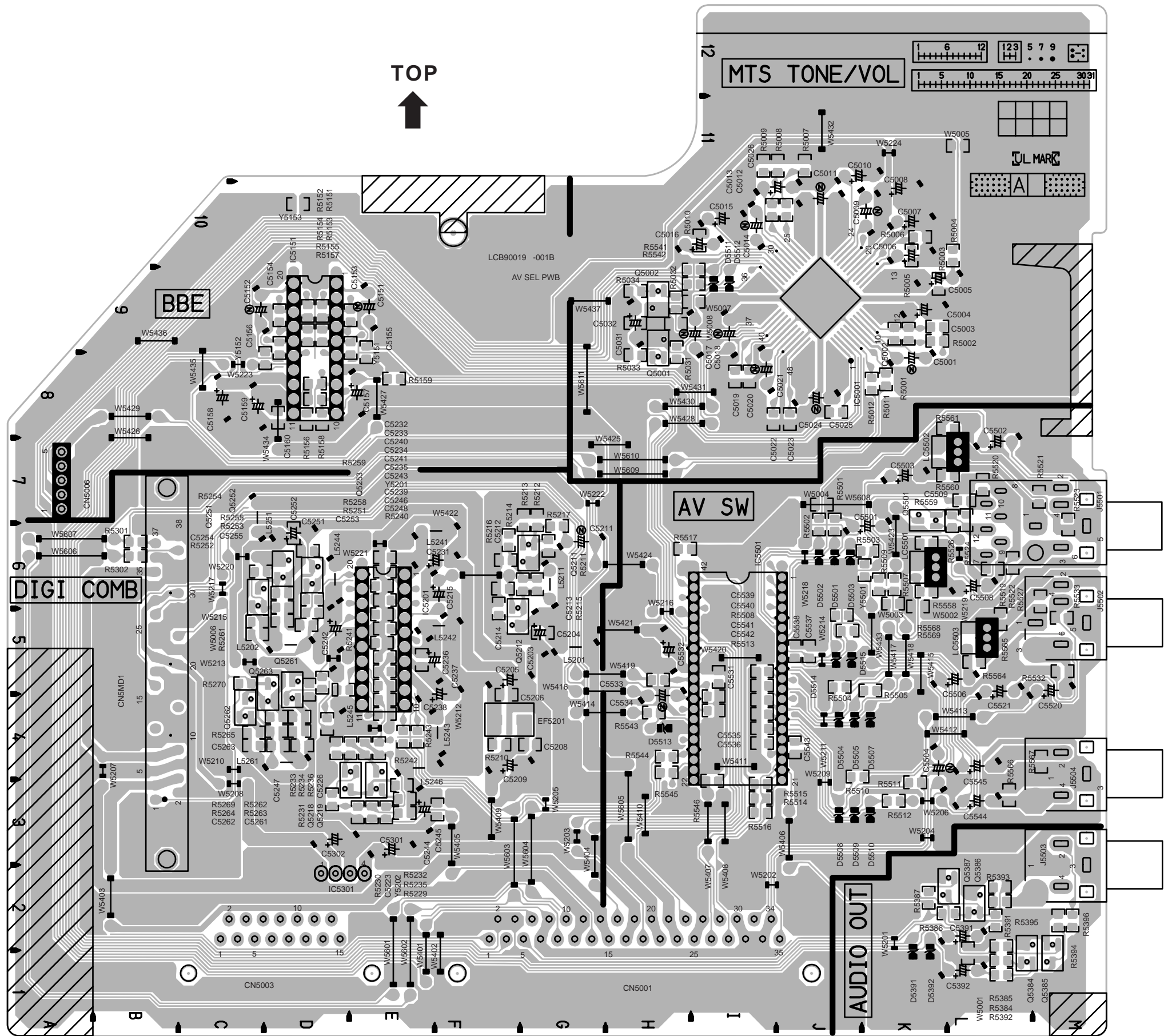


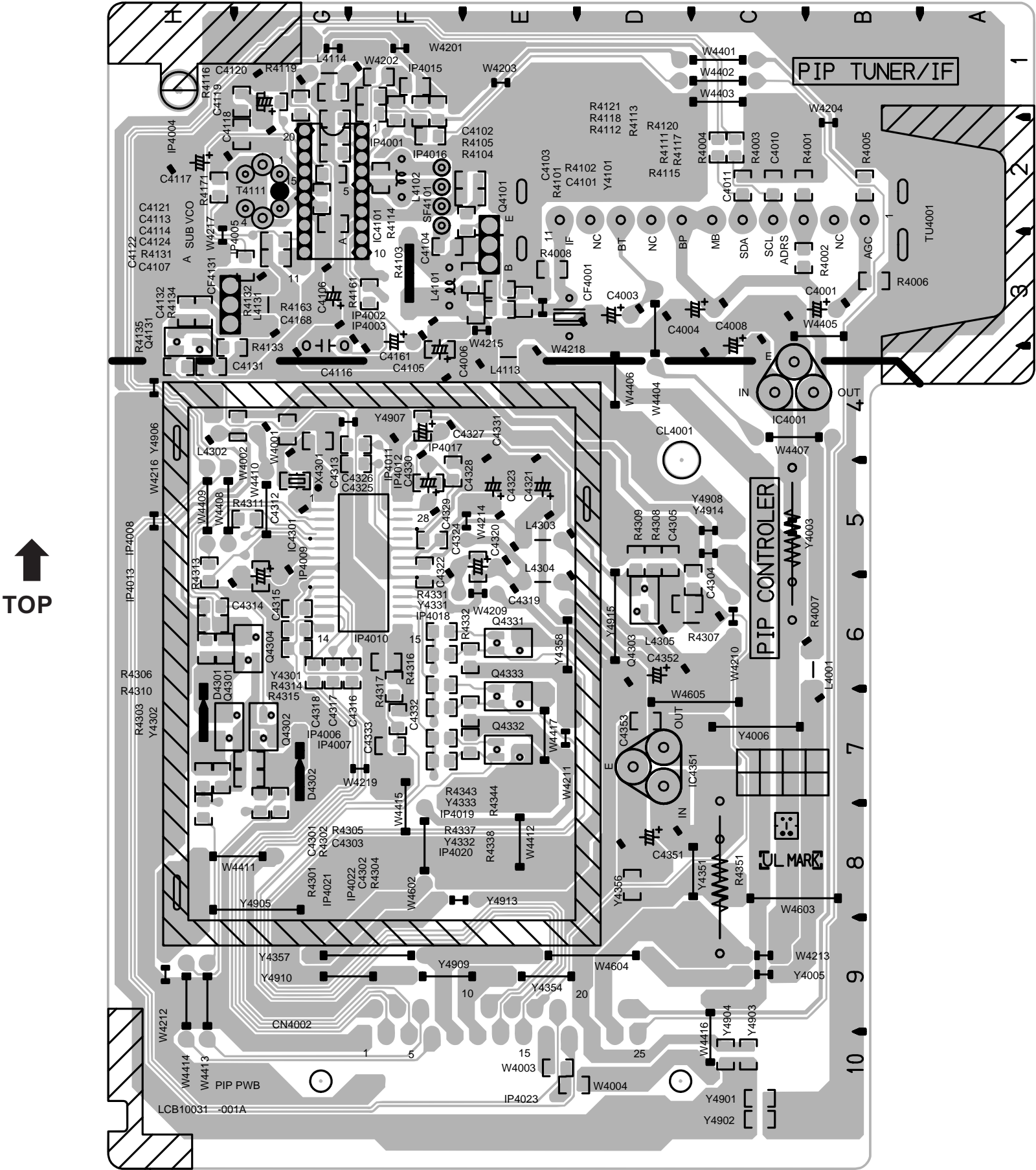
LED & POWER SW PWB CIRCUIT DIAGRAM







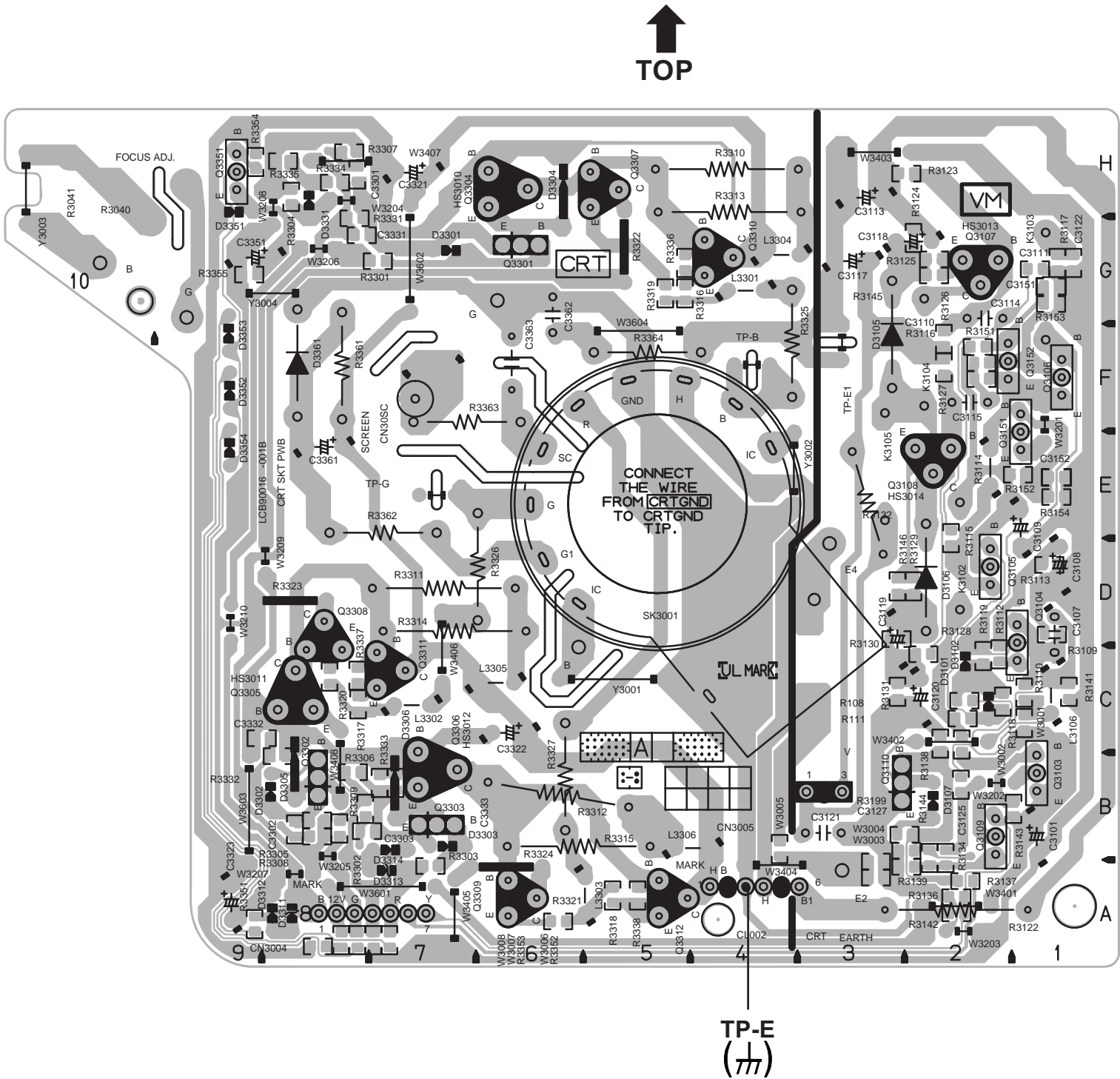




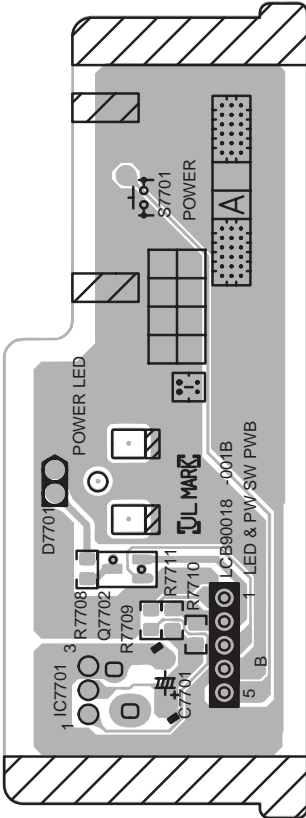
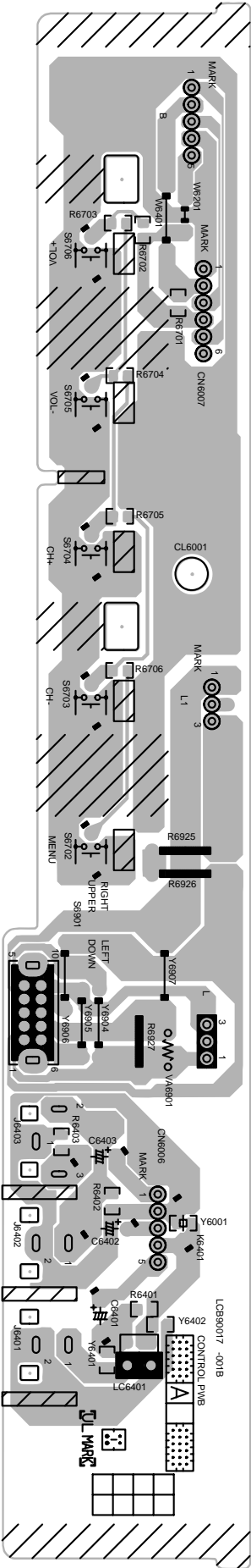
CRT SOCKET PWB PATTERN

FRONT CONTROL PWB PATTERN

LED & POWER SW PWB PATTERN



FRONT
←



FRONT
←

CHANNEL CHART (US)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02	I	
			03		
			04		
			05		
			06		
			07		
		VH	08	II	
			09		
			10		
			11		
			12		
			13		
			14		
×	○	MID	A	15	I
			B	16	
			C	17	
			D	18	
			E	19	
			F	20	
			G	21	
			H	22	
			I	23	
			J	24	
		SUPER	K	25	II
			L	26	
			M	27	
			N	28	
			O	29	
			P	30	
			Q	31	
			R	32	
			S	33	
			T	34	
		HYPER	U	35	IV
			V	36	
			W	37	
			W+1	38	
			W+2	39	
			W+3	40	
			W+4	41	
			W+5	42	
			W+6	43	
			W+7	44	
			W+8	45	
			W+9	46	
			W+10	47	
			W+11	48	
			W+12	49	
			W+13	50	
			W+14	51	
			W+15	52	
			W+16	53	
			W+17	54	
			W+18	55	
			W+19	56	
			W+20	57	
			W+21	58	
			W+22	59	
			W+23	60	
			W+24	61	
			W+25	62	
			W+26	63	
			W+27	64	
			W+28	65	
		ULTRA	W+29	66	
			W+30	67	
			W+31	68	
			W+32	69	
			W+33	70	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
			W+67	108	
			W+68	109	
			W+69	110	
			W+70	111	
			W+71	112	
			W+72	113	
			W+73	114	
			W+74	115	
			W+75	116	
			W+76	117	
			W+77	118	
			W+78	119	
			W+79	120	
			W+80	121	
			W+81	122	
			W+82	123	
			W+83	124	
			W+84	125	
		SUB MID	A-8	01	
			A-4	96	
			A-3	97	
			A-2	98	
			A-1	99	
○	×	UHF	14	69	IV
TOTAL 180CH { VHF 124CH UHF 56CH					
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AV-27F703
AV-27F713
AV-27F803

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AV-27F803

CHANNEL CHART (CA)

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
○	○	VL	02	I	
			03		
			04		
			05		
			06		
			07		
		VH	08	II	
			09		
			10		
			11		
			12		
			13		
			A	14	
×	○	MID	B	15	II
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
			J	23	
			K	24	
		SUPER	L	25	III
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
		HYPER	V	35	
			W	36	
			W+1	37	
			W+2	38	
			W+3	39	
			W+4	40	
			W+5	41	
			W+6	42	
			W+7	43	
			W+8	44	
			W+9	45	
			W+10	46	
			W+11	47	
			W+12	48	
			W+13	49	
			W+14	50	
			W+15	51	
			W+16	52	
			W+17	53	
			W+18	54	
			W+19	55	
			W+20	56	
			W+21	57	
			W+22	58	
			W+23	59	
			W+24	60	
			W+25	61	
			W+26	62	
			W+27	63	
			W+28	64	
		ULTRA	W+29	65	IV
			W+30	66	
			W+31	67	
			W+32	68	
			W+33	69	
			W+34	70	

MODE		BAND	CHANNEL		TUNER BAND
TV	CATV		REAL	DISP.	
×	○	ULTRA	W+35	71	IV
			W+36	72	
			W+37	73	
			W+38	74	
			W+39	75	
			W+40	76	
			W+41	77	
			W+42	78	
			W+43	79	
			W+44	80	
			W+45	81	
			W+46	82	
			W+47	83	
			W+48	84	
			W+49	85	
			W+50	86	
			W+51	87	
			W+52	88	
			W+53	89	
			W+54	90	
			W+55	91	
			W+56	92	
			W+57	93	
			W+58	94	
			W+59	100	
			W+60	101	
			W+61	102	
			W+62	103	
			W+63	104	
			W+64	105	
			W+65	106	
			W+66	107	
		W+67	108		
		W+68	109		
		W+69	110		
		W+70	111		
		W+71	112		
		W+72	113		
		W+73	114		
		W+74	115		
		W+75	116		
		W+76	117		
		W+77	118		
		W+78	119		
W+79	120				
W+80	121				
W+81	122				
W+82	123				
W+83	124				
W+84	125				
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	II
			A-2	98	
			A-1	99	
○	×	UHF	14 } 69		IV
TOTAL 180CH { VHF 124CH UHF 56CH					
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